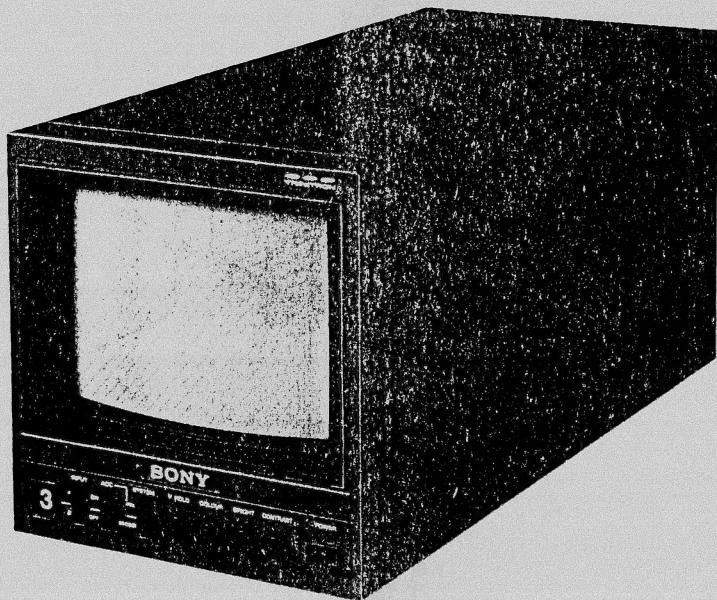


PVM-9010ME

Chassis No. SCC-247B-A



TRINITRON® COLOUR VIDEO MONITOR

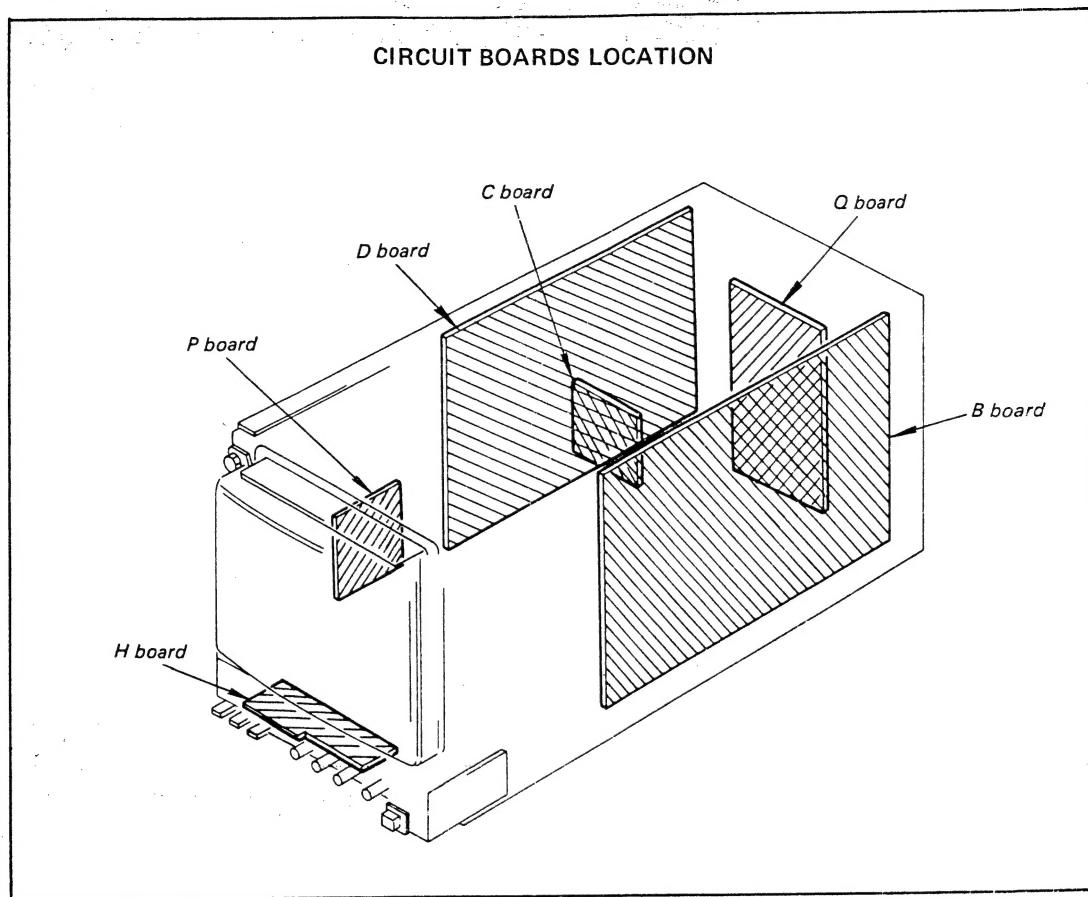
SPECIFICATIONS

Television System:	CCIR TV standards (system B and G)
Colour System:	PAL/SECAM
Picture Tube:	22 cm, 9" (screen measured diagonally), 70° deflection TRINITRON system
Video System:	R.G.B. cathode drive
Video Input:	0.7 Vp-p non-composite or 1 Vp-p composite video signal ± 6 dB positive
Sync Input:	4 Vp-p ± 6 dB negative
Video/Sync Input Impedance:	High-impedance for loop-through 75 Ω terminated
Anode Voltage:	18 kV at zero beam current
Power Requirements:	220/240 V ac 50/60 Hz
Power Consumption:	60 W ac (max.)
Dimensions:	Approx. 216 (w) x 229 (h) x 521 (d) mm 8 $\frac{1}{2}$ (w) x 9 $\frac{1}{8}$ (h) x 20 $\frac{1}{2}$ (d) inches including projecting parts and controls Approx. 216 (w) x 220 (h) x 521 (d) mm 8 $\frac{1}{2}$ (w) x 8 $\frac{5}{8}$ (h) x 20 $\frac{1}{2}$ (d) inches excluding bottom feet
Weight:	Approx. 12 kg (26 lb 7 oz)
Supplied Accessories:	Number plates Instruction manual

SAFETY-RELATED COMPONENT WARNING !!

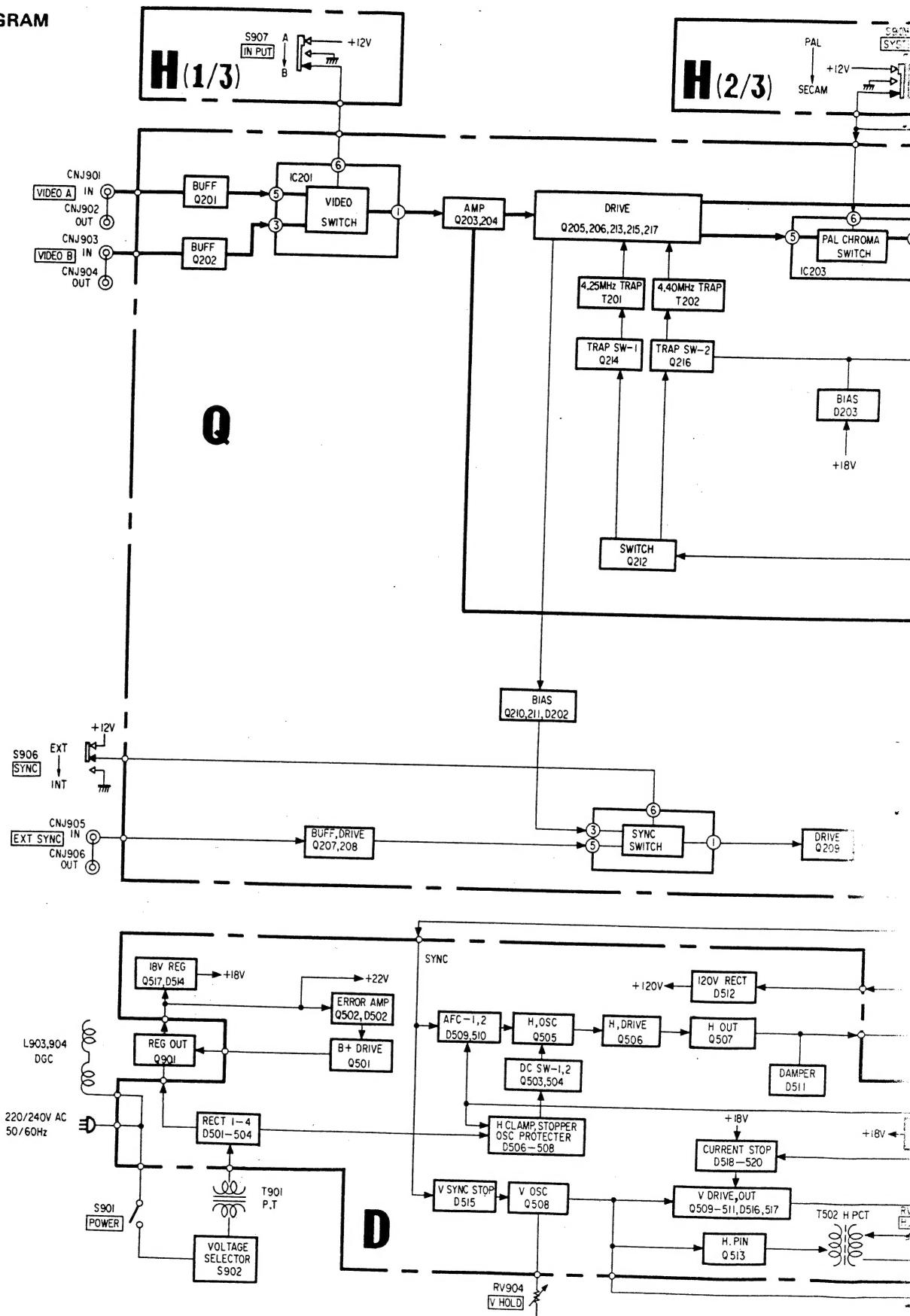
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

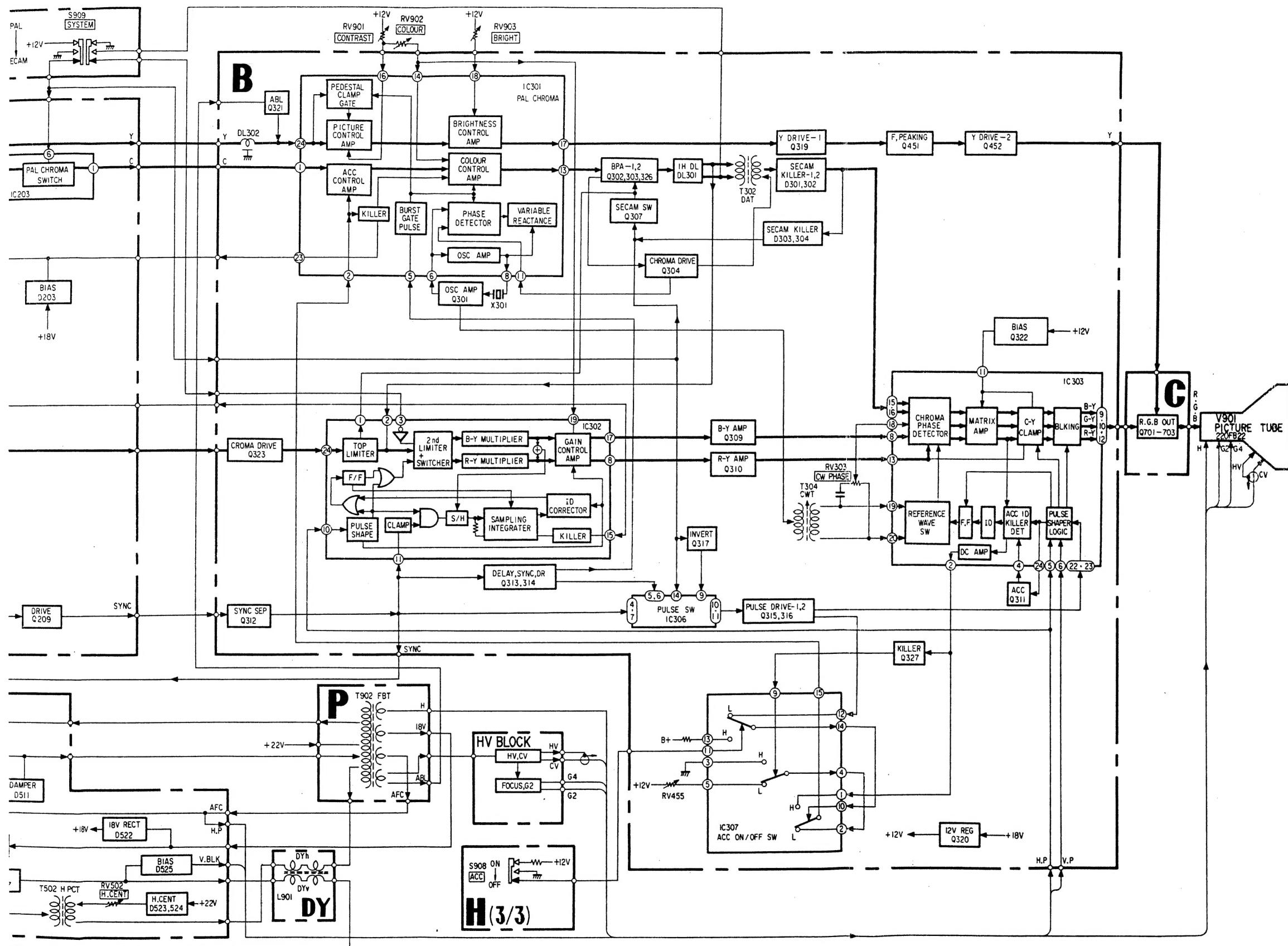
SONY®
SERVICE MANUAL



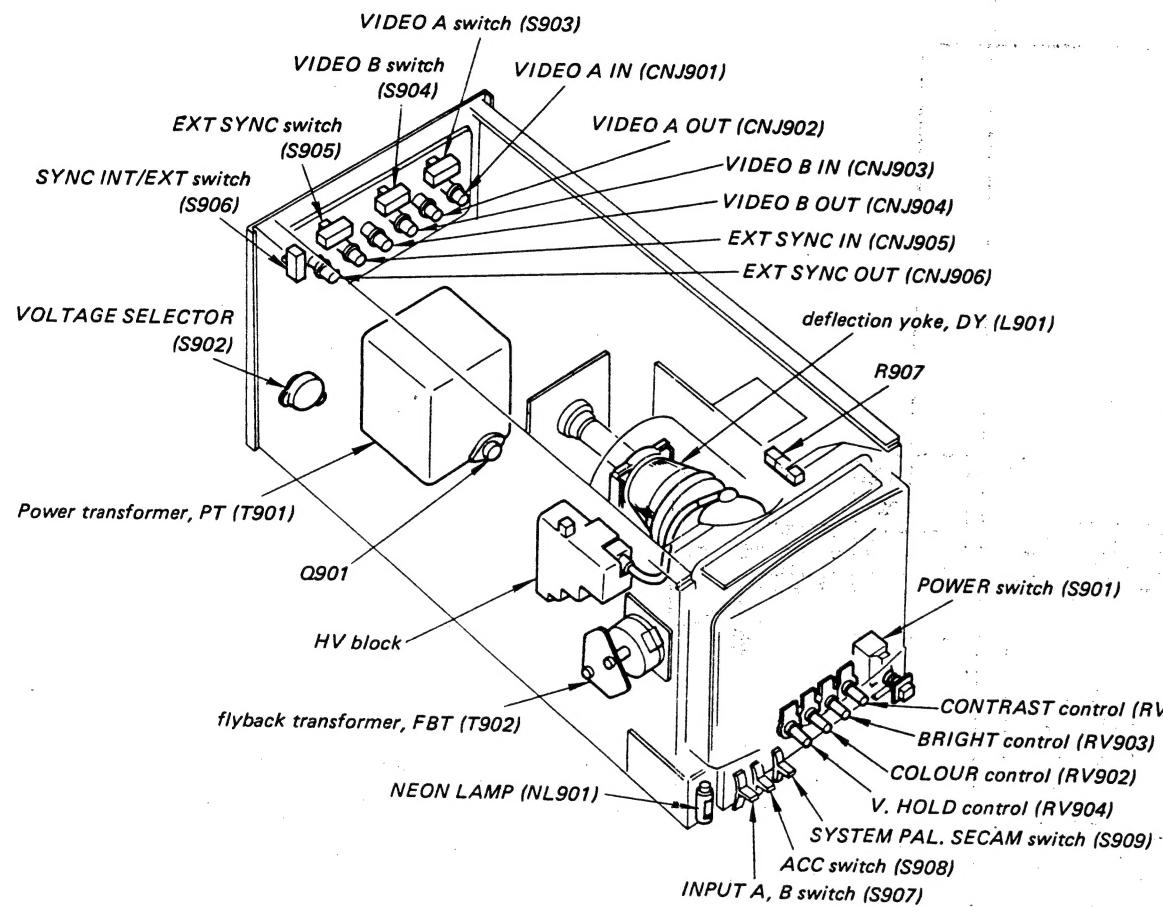
SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM

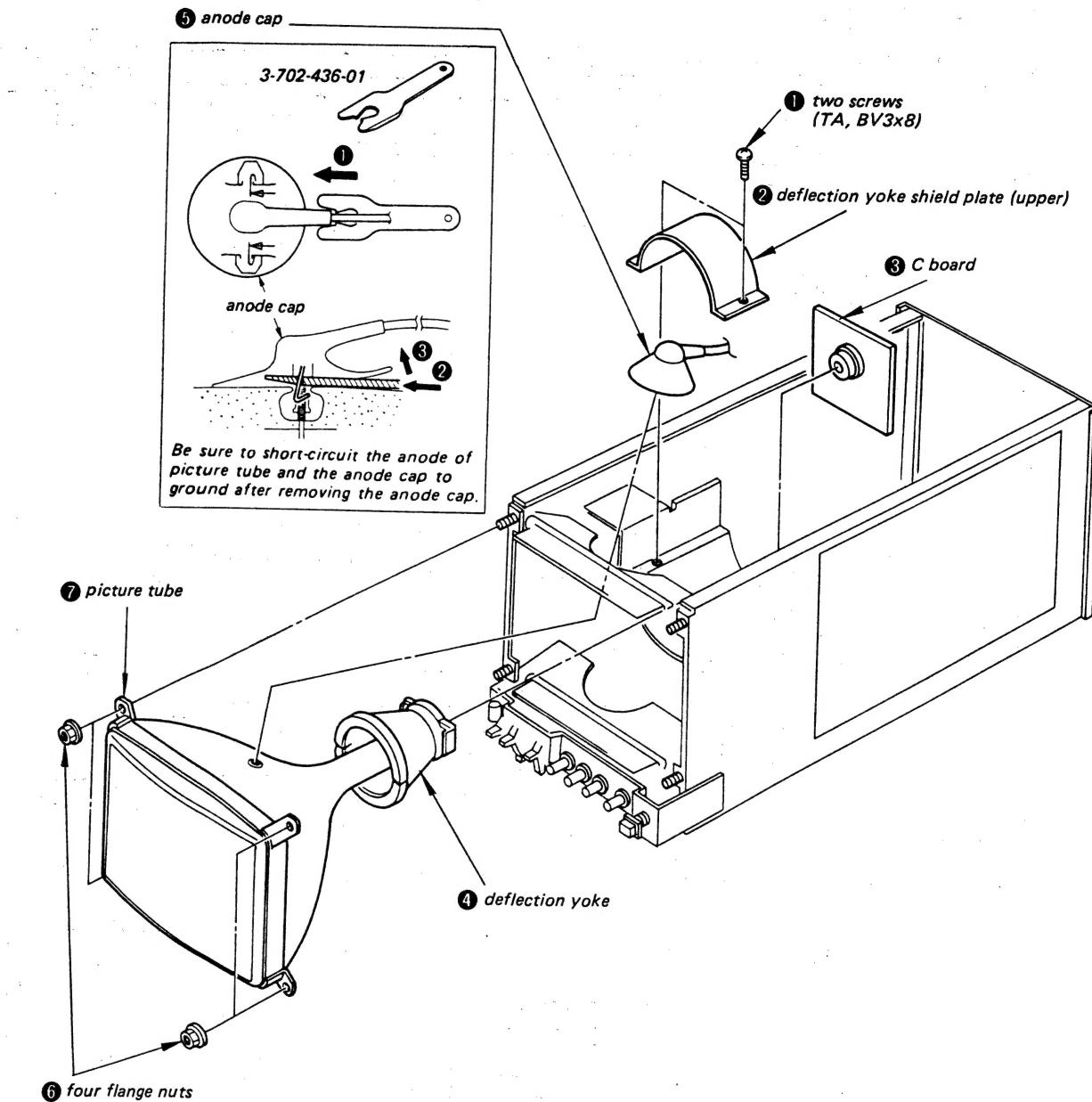




1-2. INTERVAL VIEW

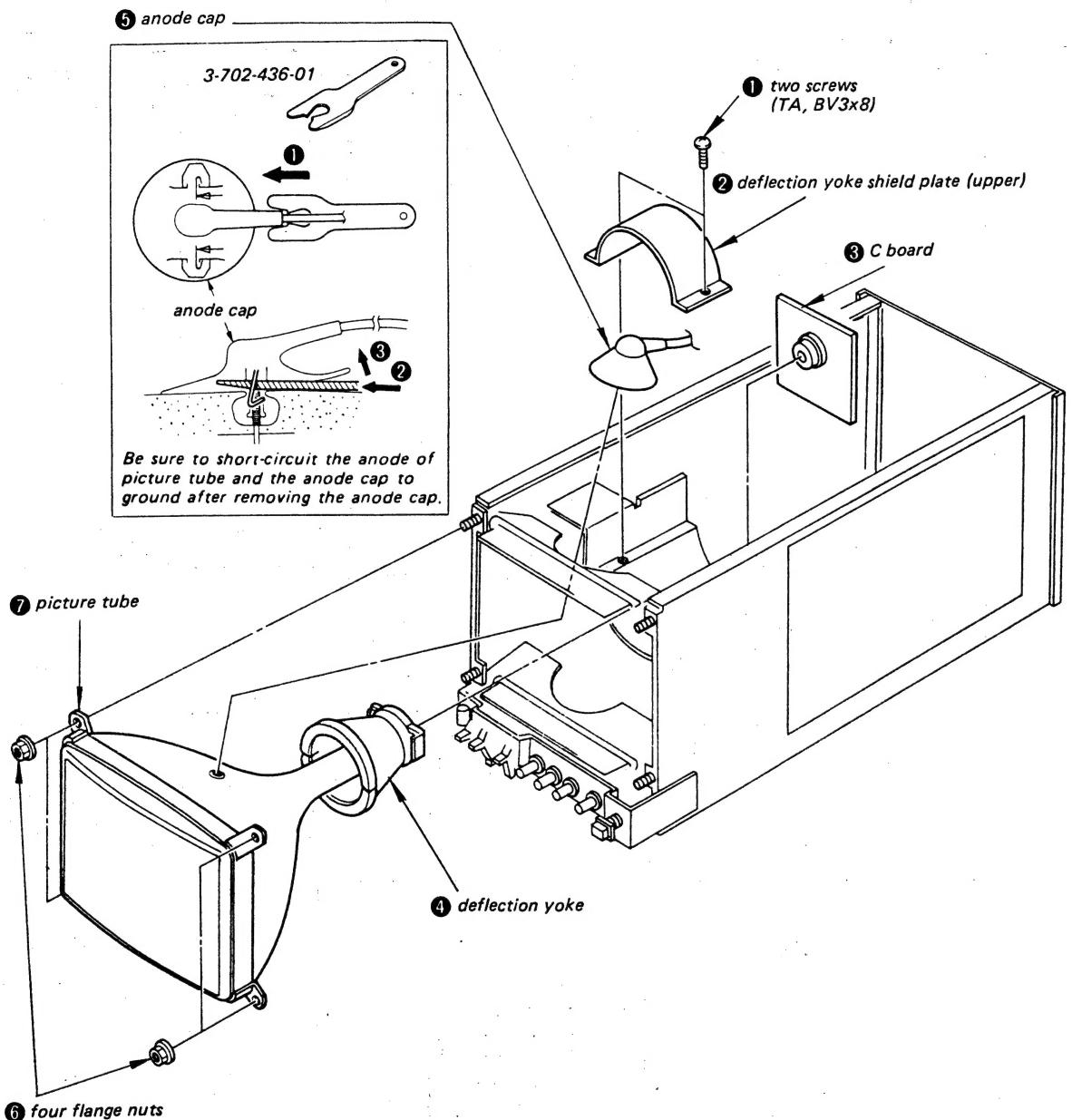
SECTION 2
DISASSEMBLY

2-1. PICTURE TUBE REMOVAL

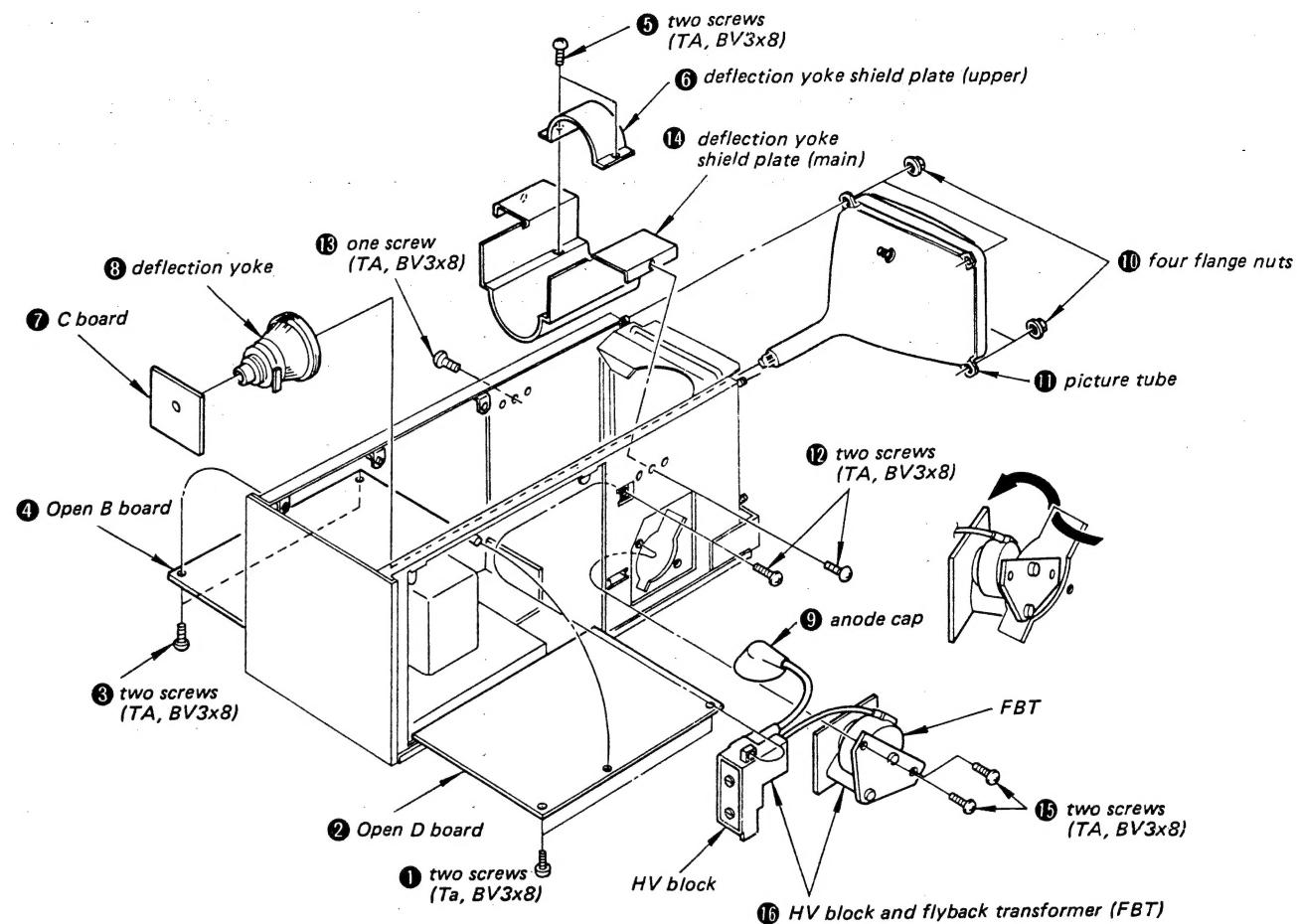


SECTION 2 DISASSEMBLY

2-1. PICTURE TUBE REMOVAL

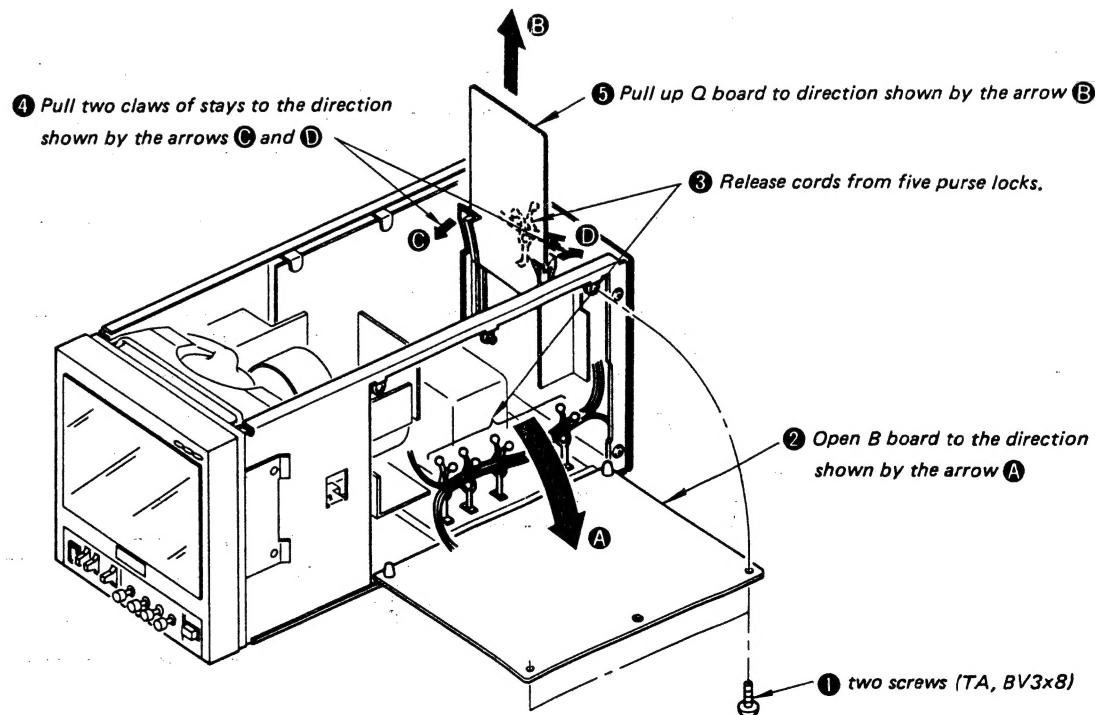


2-2. HV BLOCK AND FLYBACK TRANSFORMER REMOVAL



2-3. CHECKING Q BOARD UP

Position the set as shown below.



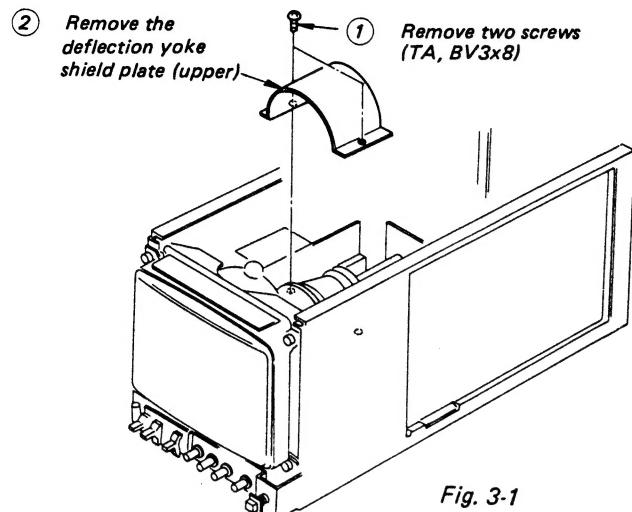
SECTION 3 SETUP ADJUSTMENTS

SCC-247B-A

PVM-9010ME PVM-9010ME

SCC-247B-A

Note: (1) Remove the deflection yoke shield plate for the following adjustments and be sure to install it after adjustments.



- (2) The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- (3) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows:

CONTRAST control } maximum
BRIGHT control } (fully clockwise)

Make the following adjustments in the order given.

1. Beam Landing
2. Focus
3. Convergence
4. White Balance

Note: Test Equipment Required.

1. Colour-bar/Pattern Generator
2. Degausser
3. Video tuner

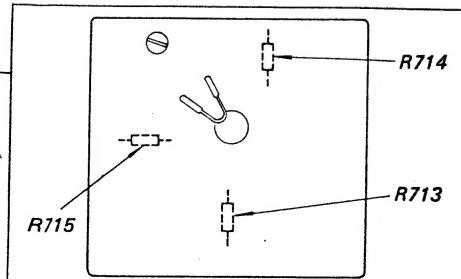
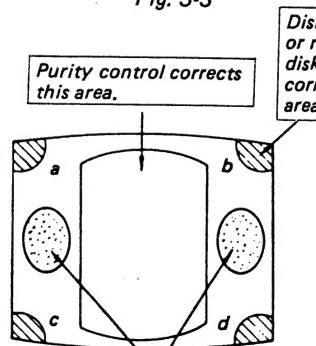
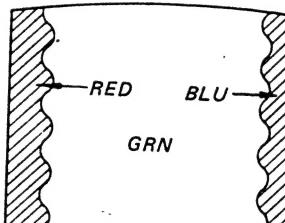
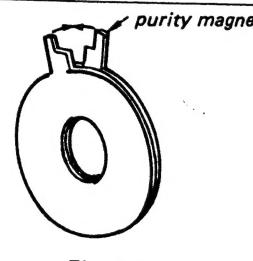
3-1. BEAM LANDING

Preparation:

- Feed in the white pattern signal to VIDEO IN/OUT connector through video tuner from colour-bar/pattern generator.
- Before starting, degauss the entire screen.

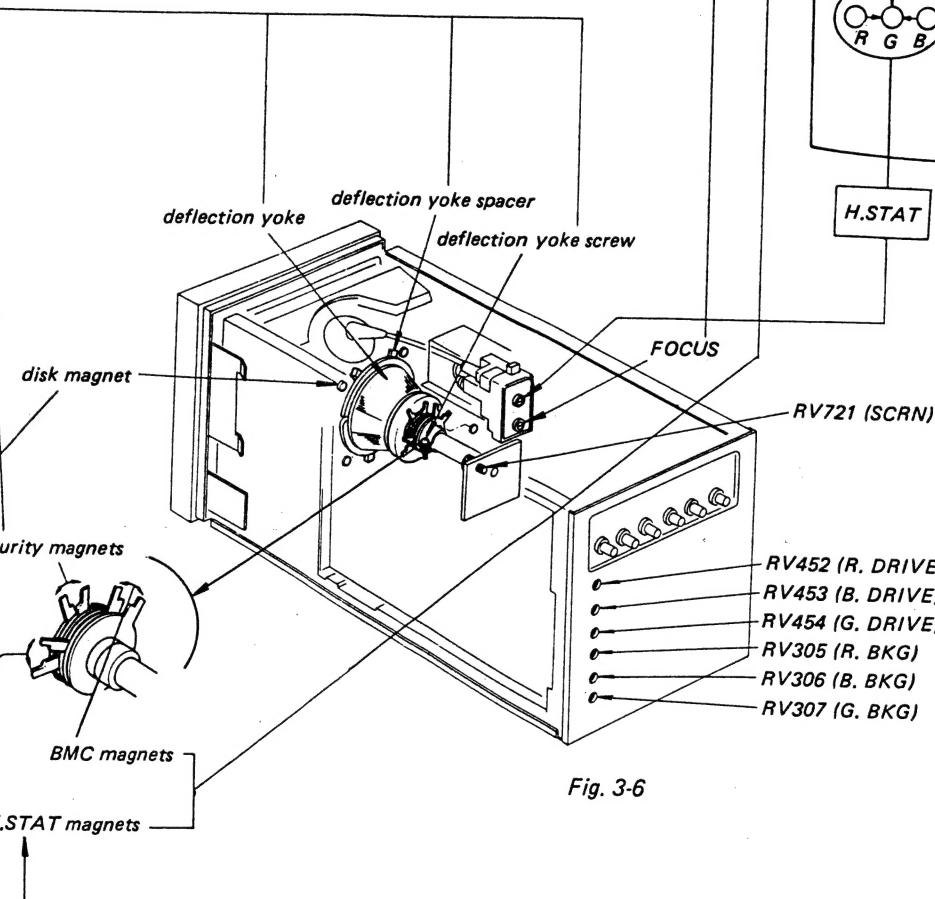
1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Adjust purity magnet tabs as shown in Fig. 3-2.
4. Slide deflection yoke as far forward as it will go.
5. Disconnect resistors R714 and R715 on the C board.
6. Adjust purity magnet tabs to center vertical green band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform green screen.
8. Check red and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.

To get a uniform red screen,
... connect resistor R714 and disconnect resistors R713 and R715 on the C board.
To get a uniform blue screen,
... connect resistor R715 and disconnect resistors R713 and R714 on the C board.
After these checks, connect the resistors R713, R714 and R715.



9. Tighten the deflection yoke screw.
10. Install the deflection yoke spacers.

11. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
12. Confirm that beam landing is correct when the receiver is faced in all directions.



3-2. FOCUS

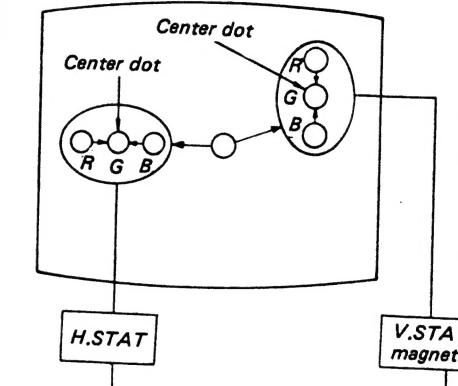
Adjust FOCUS control for best focus.

3-3. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise, and set CONTRAST control to mechanical center.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots; Rotate BMC magnet tabs to correct insufficient H and V static convergence.
After rotating the BMC magnet tabs, perform Beam Landing Adjustment.

3-4. WHITE BALANCE

1. Turn COLOUR, BRIGHT and CONTRAST controls fully counterclockwise.
2. Turn R. DRIVE (RV452), G. DRIVE (RV454) and B. DRIVE (RV453) controls fully clockwise.
3. Set R. BKG (RV305), G. BKG (RV307) and B. BKG (RV306) controls to mechanical center.
4. Turn SCR (RV721) control slowly to obtain a faintly visible cross-hatch. Note the colour that first becomes visible by turning SCR control. Do not turn a BKG control for this colour.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn BRIGHT and CONTRAST controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown in Fig. 3-7.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

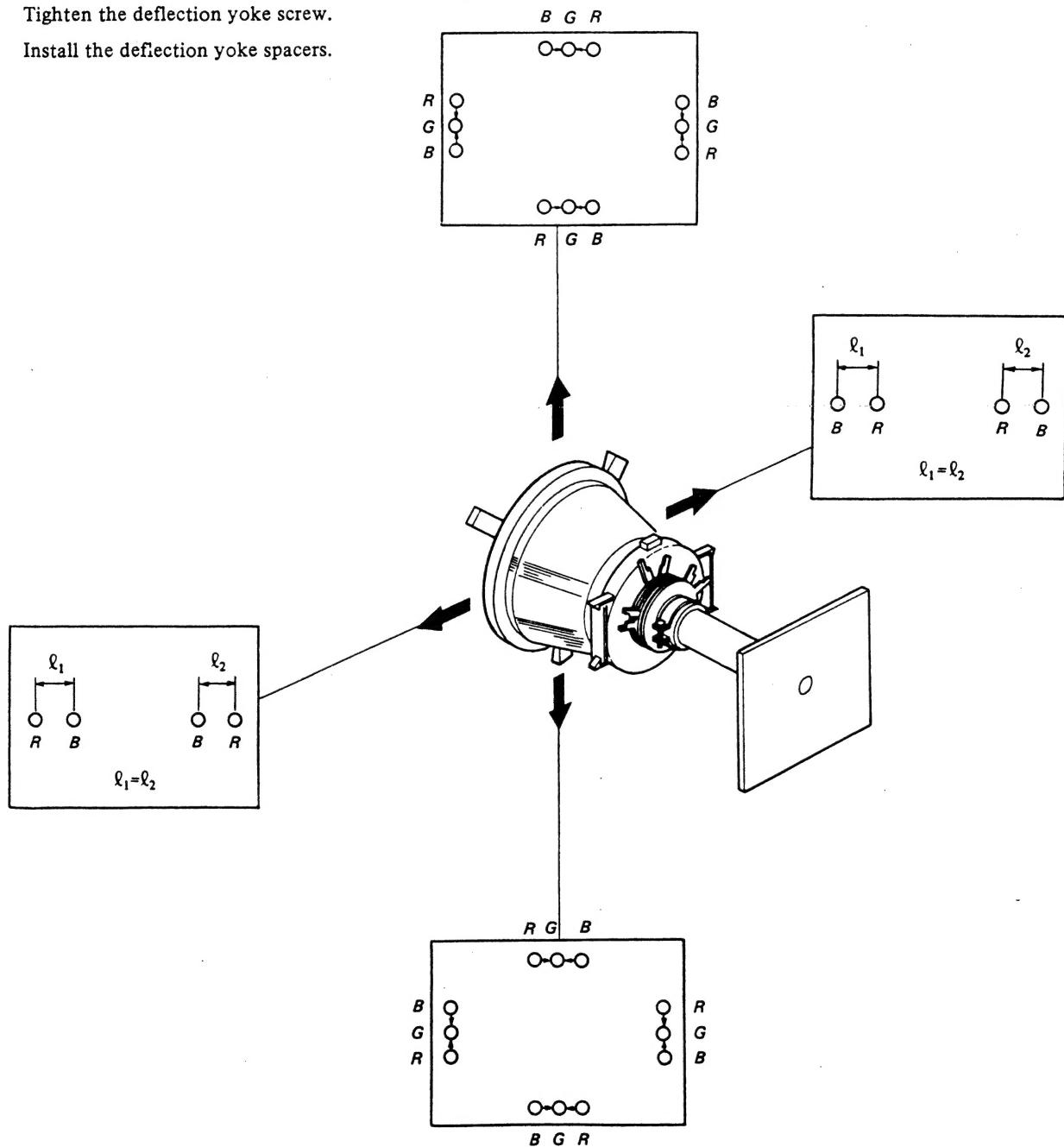


Fig. 3-7

SECTION 4

CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Variable autotransformer
3. Digital multimeter
4. Colour-bar/pattern generator
5. PAL Signal generator (TEKTRONIX 141)
6. Video tuner
7. Regulated-dc power supply
8. Isolation transformer
9. Digital multimeter

(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, colour-bar or dots pattern signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

Controls and switch should be set as follows when making adjustments unless otherwise noted.

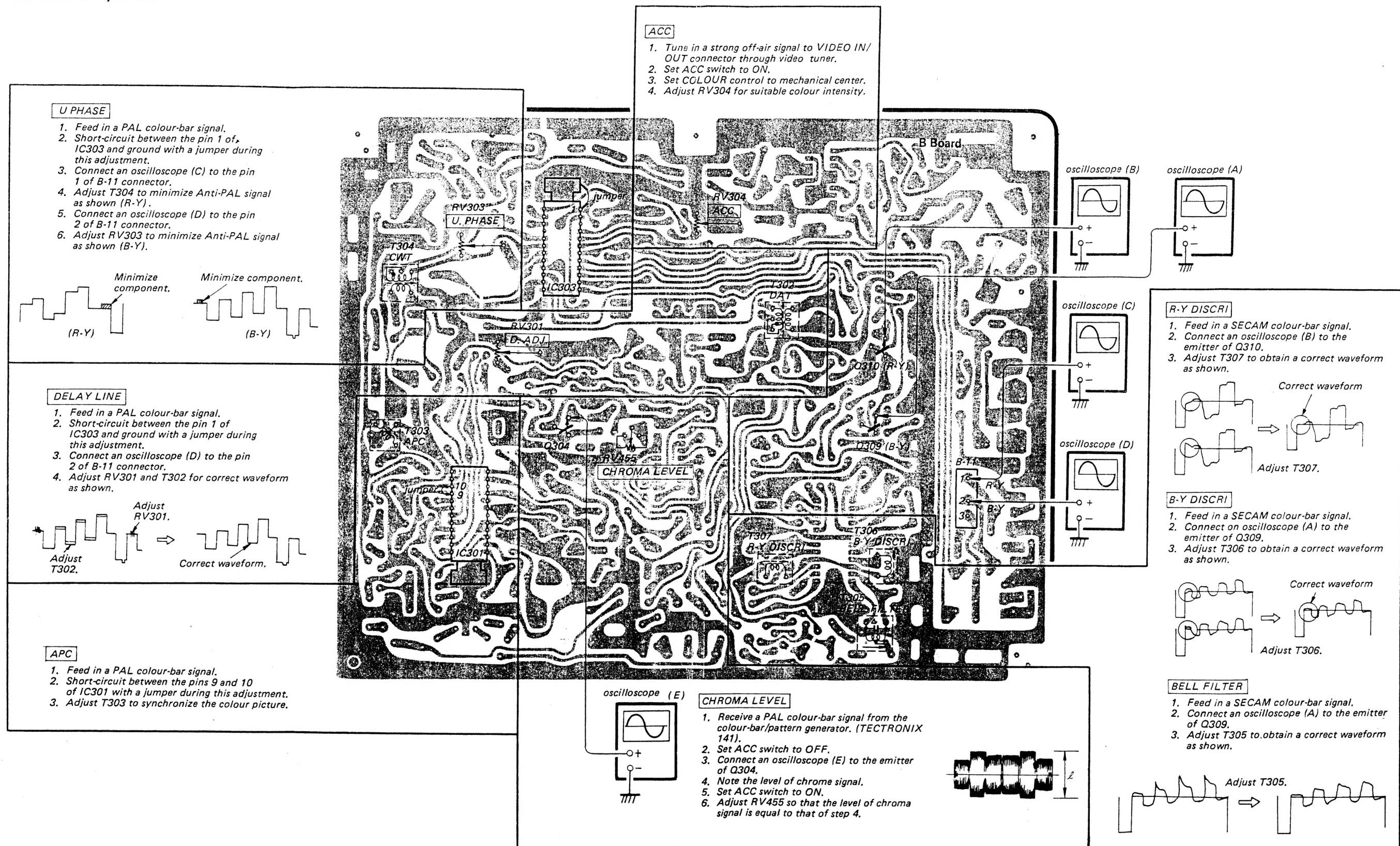
CONTRAST control
 BRIGHT control } Set for best picture.
 COLOUR control
 ACC switch ON

- (4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

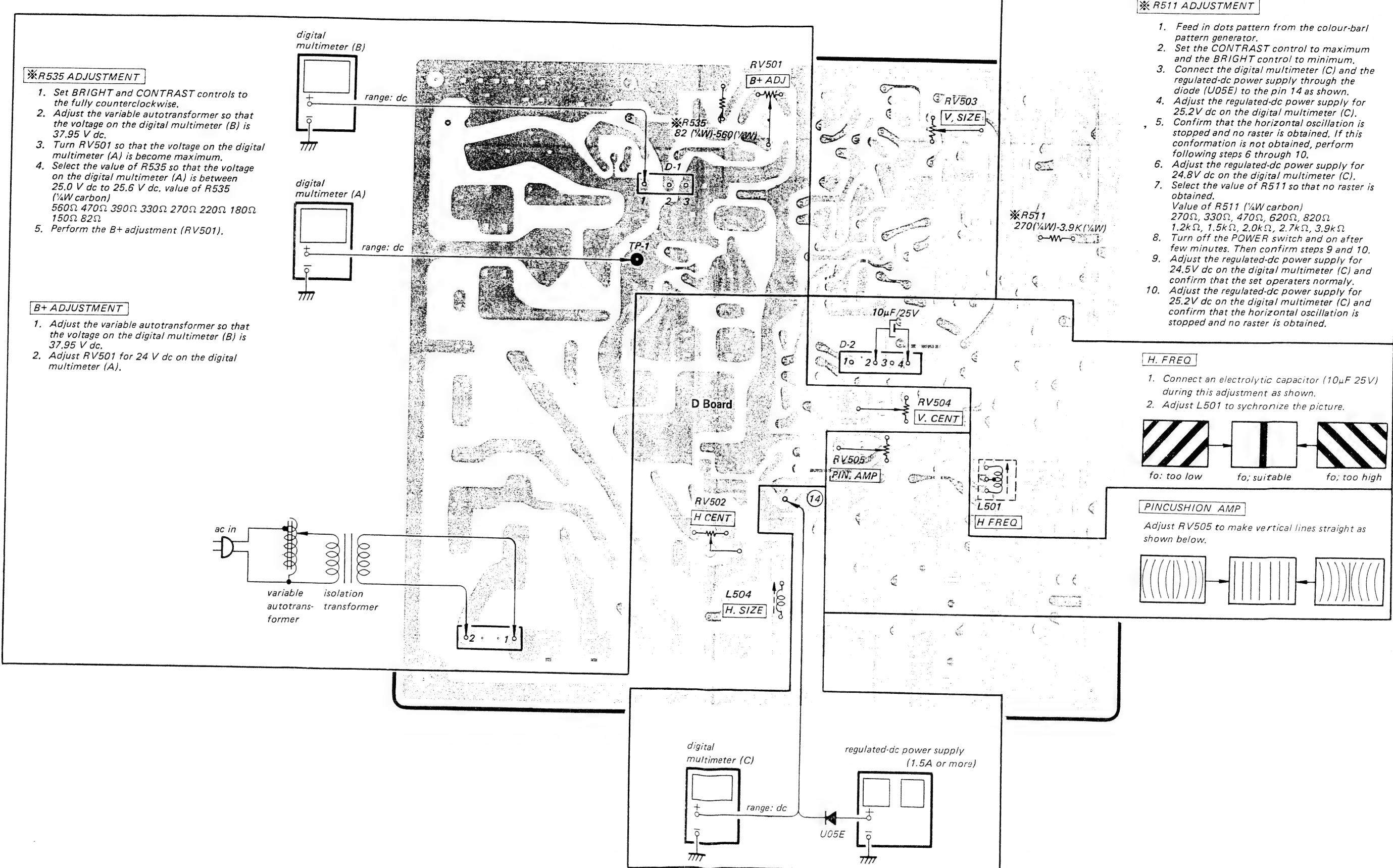
(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
ACC U PHASE DELAY LINE APC CHROMA LEVEL R-Y DISCRI B-Y DISCRI BELL FILTER	B	13, 14
* R535 adjustment B+ adjustment * R511 adjustment H. FREQ PINCUSHION AMP	D	15, 16
4.40 MHz TRAP 4.25 MHz TRAP	Q	17, 18

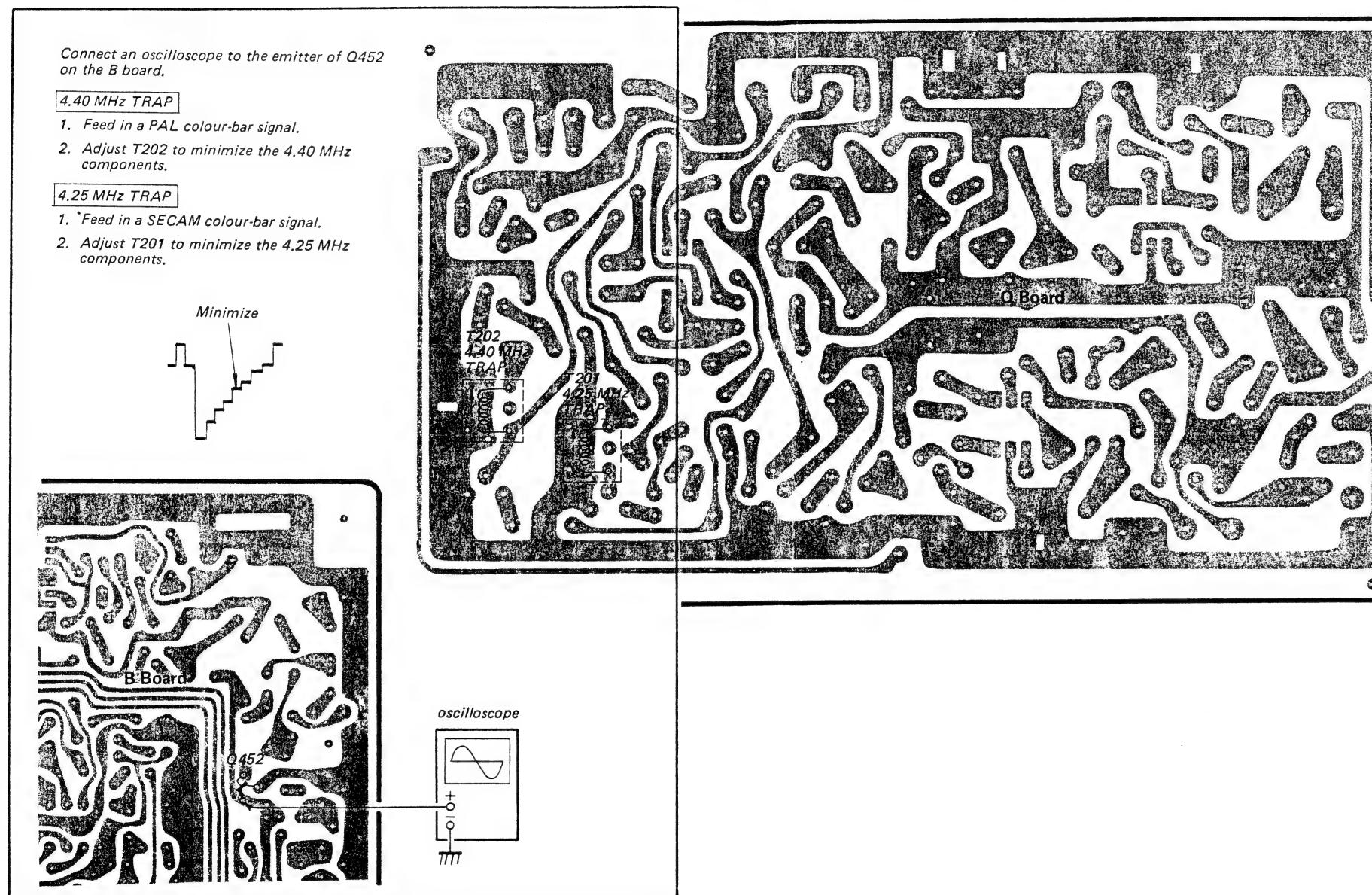
4-1. B Board Adjustment



4-2. D Board Adjustment



4-3. Q Board Adjustment



SECTION 5 DIAGRAMS

5-1. MOUNTING DIAGRAM

— Conductor Side —

C [R. G. B. OUT]

[CUSTOMER CONTROL]

A | B | C | D

SONY

1

2

R723

R724

RV721

SG721

C721

NL721

R722

R713

SG723

SG724

R710

R720

R721

SG722

R714

R726

R725

C723

C722

U701

C-1

0702

0701

0703

E

B

C

1-603-385-11

3 - H Board -

[Y AMP, DRIVE, SY
PAL CHROMA SW

6

6

A

8

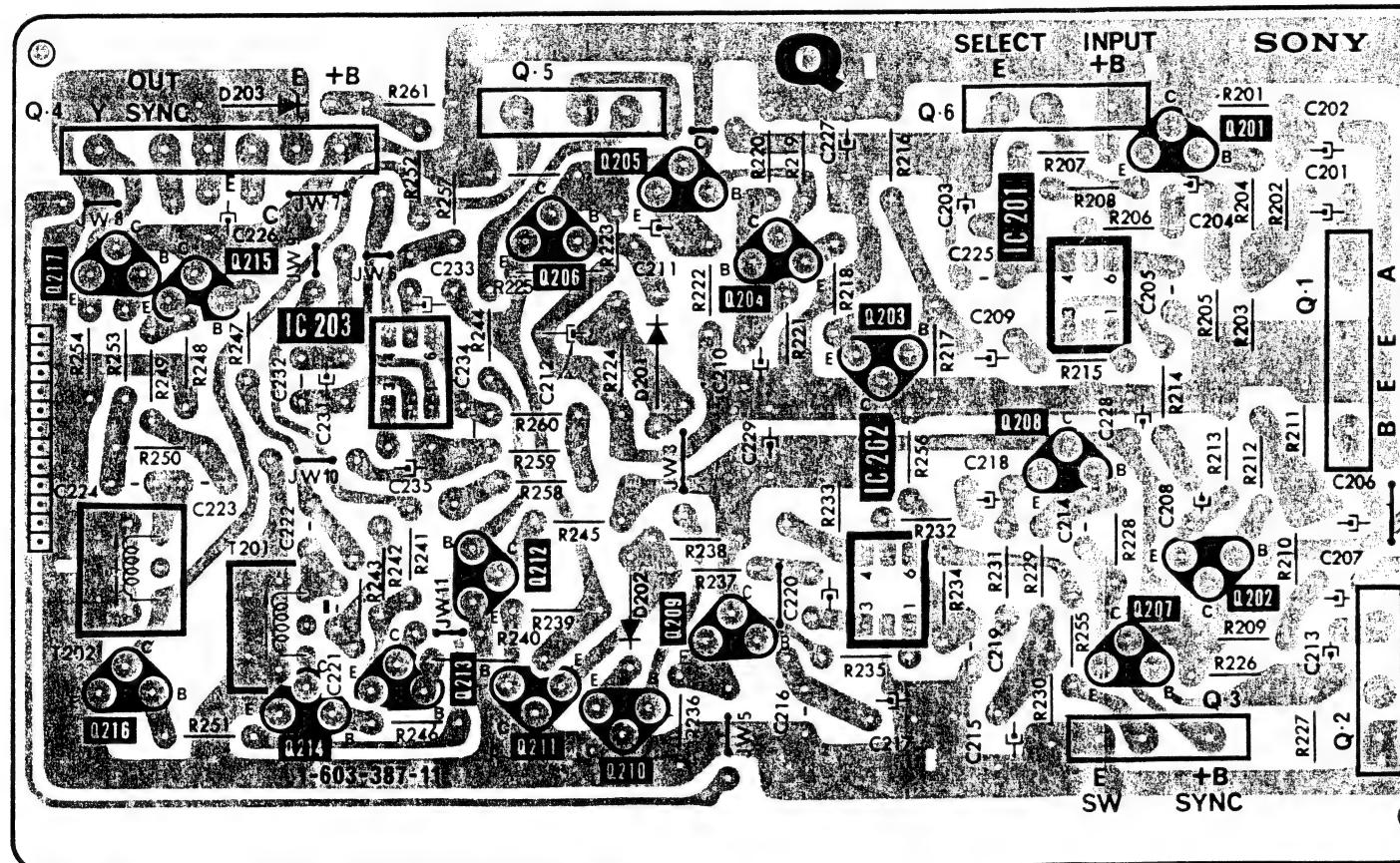
C

□

8

1

– Q Board –



— D Board —

8

[REG, H, V, DEF, PROTECT]

D

1

1

G

1

2

3

4

1

114

1

Q, IC	D	ADJ
504	515	R535
503	505	RV501
508	518	RV503
501	507	
	506	
	517	
	503	
	504	R511
	514,519	
	516,508	
509	520	
511	501	
517 510	502	
	509	
	525	
	510	
513		RV504
505		RV505
	524	L501
	523	
506		
	522	
	512	RV502
	511	
507		L504

三

B

CHROMA, Y AMP
ACC. MATRIX

A

3

2020 RELEASE UNDER E.O. 14176

1

www.ijerph.com

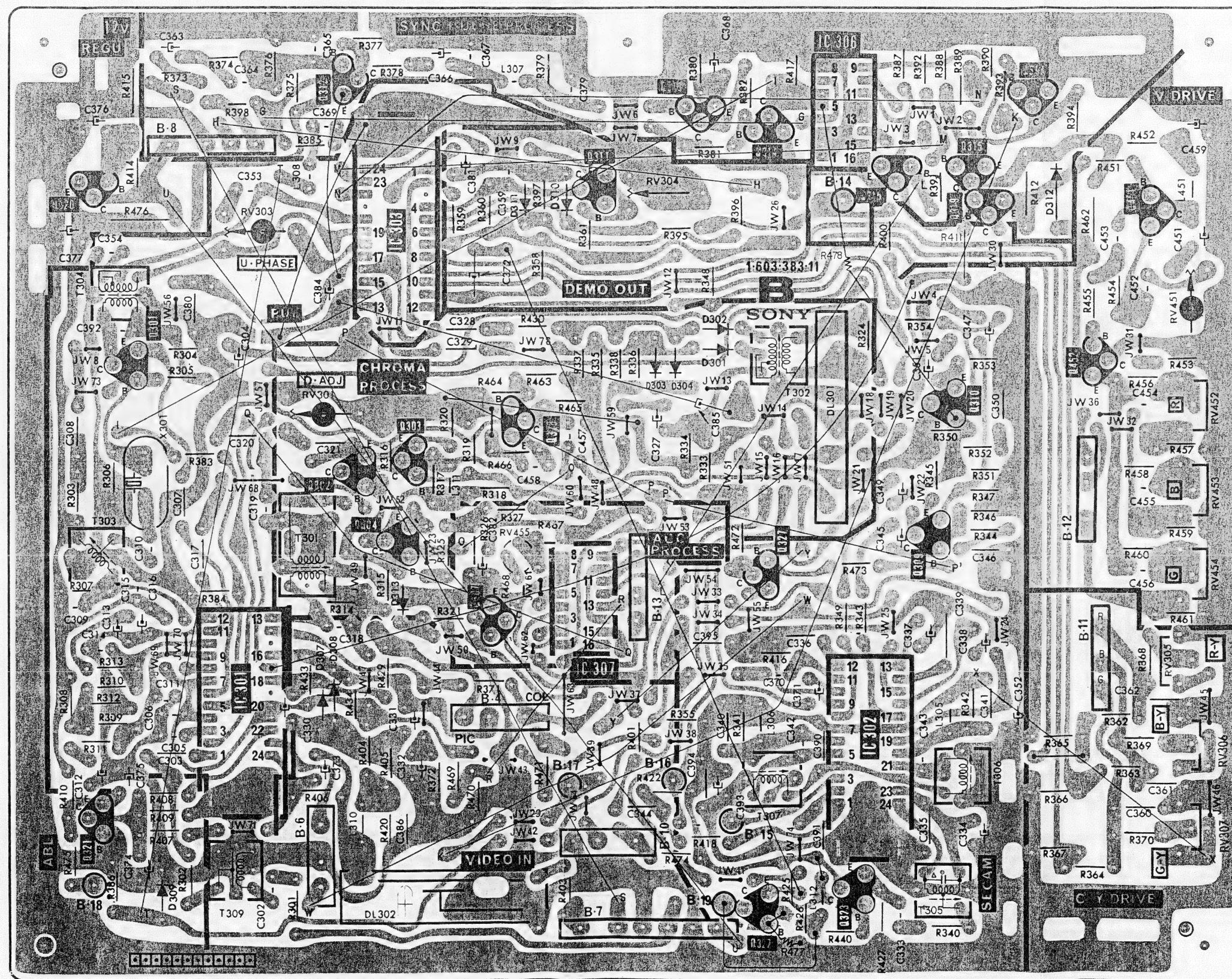
www.ijerph.com

www.ijerph.com

10

— B Board —

Q , IC	D	ADJ
312		
317		
313		
314		
IC306		
316,315		
320 311	312	RV304
319,451	311,310	
IC303		RV303
		T304
		RV451
	302	
	301	T302
301 452	303,304	
310		RV452
326		RV301
303		
302		RV453
304		
309		
327		T303
		RV454
IC307	313	
307		
		RV305
IC301	308	
	307	
IC302		RV306
321		T306
		T307
		RV307
323	309	
322		T305

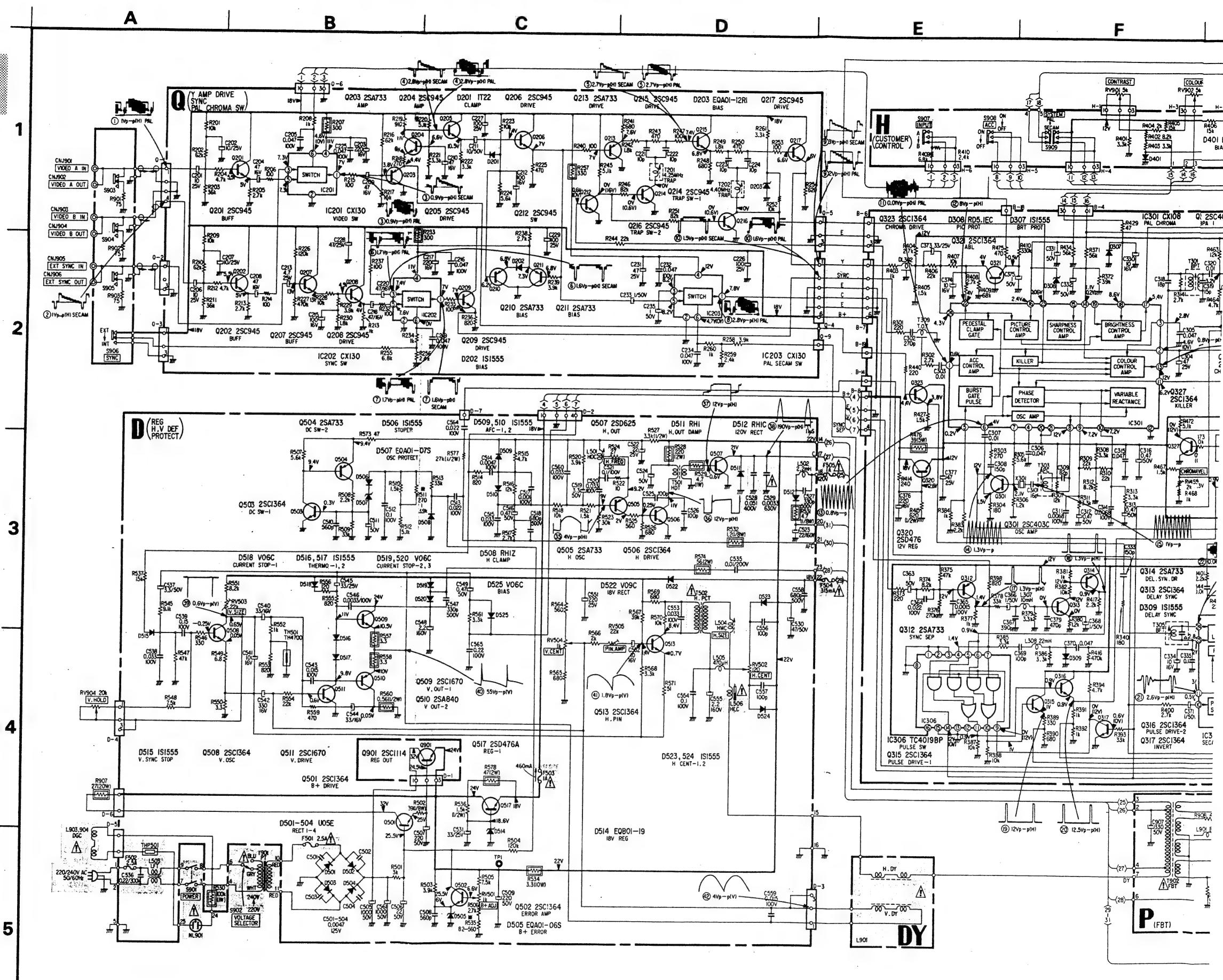


5-2. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted.
 $\text{k}\Omega : 1000\Omega$; $\text{M}\Omega : 1000\text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : panel designation.
- Δ : internal component.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
-  : adjustment for repair.
-  : adjustable without removing cabinet.
- * : selected to yield optimum performance.
- Voltages and waveforms are taken when PAL colour-bar signal is input VIDEO A IN or SECAM colour-bar signal is input VIDEO B IN and when INPUT switch is chosen A or B.
- In voltage
 - V; These voltages are with A (Reading are taken with a PAL colour-bar signal input) or common.
 - (V); These voltages are with B (Reading are taken with a SECAM colour-bar signal input).
- Waveforms not to indicate PAL or SECAM are common.

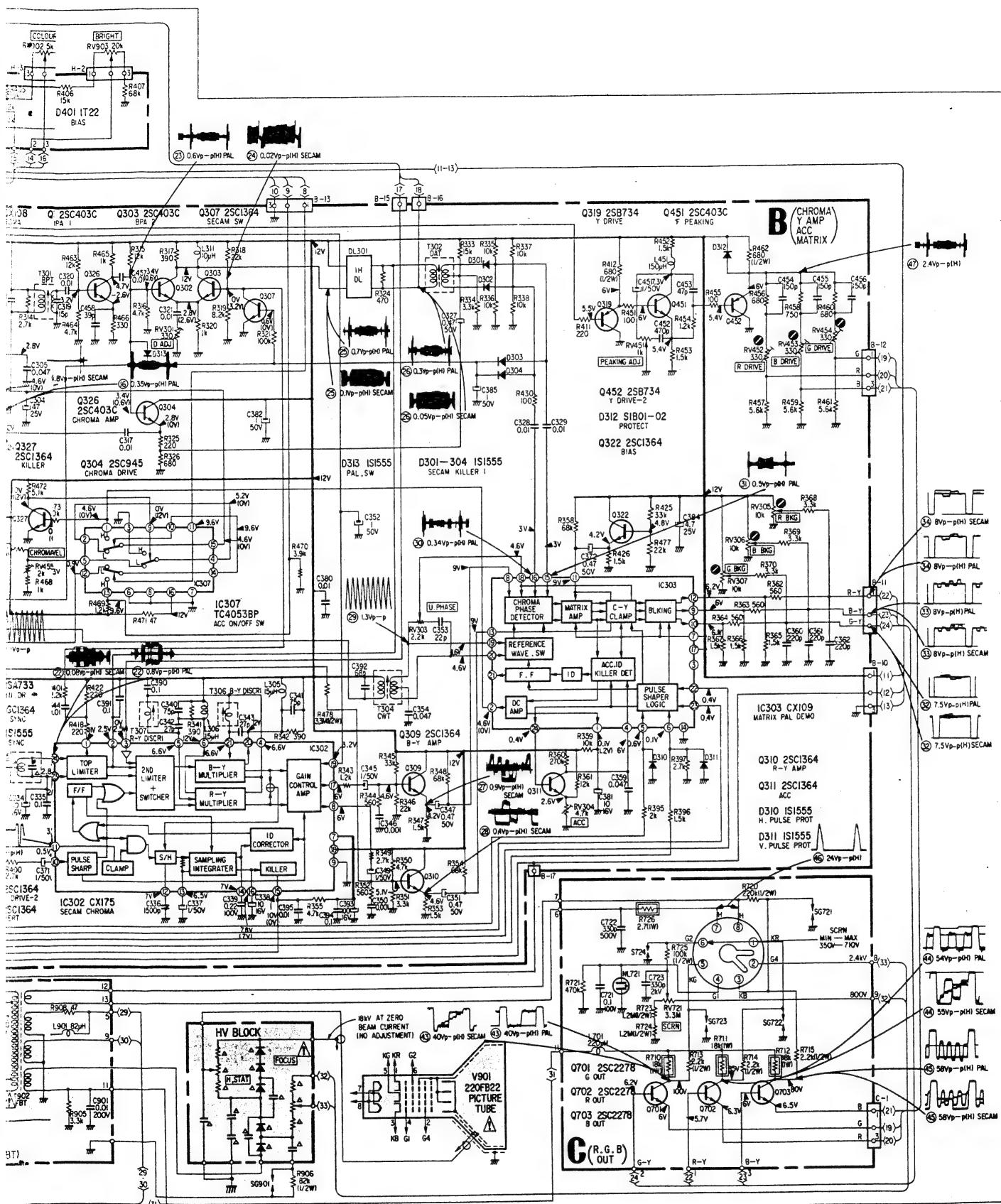


G

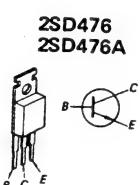
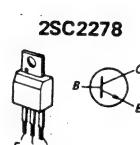
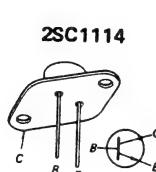
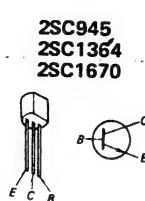
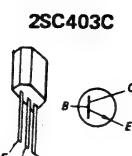
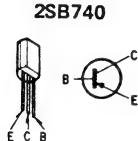
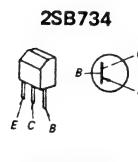
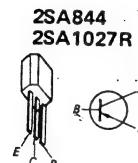
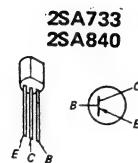
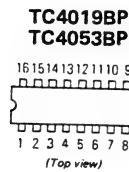
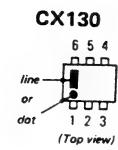
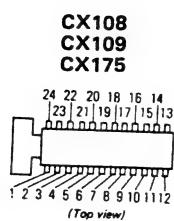
H

I

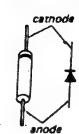
J



Semiconductors



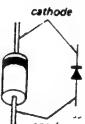
1S1555
1T22
1T22AM
10E2
RD5.1EC



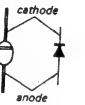
EQQA01-06S
EQQA01-07S
EQQA01-12R1
EQB01-06
EQB01-07
EQB01-19
EQB01-19Z
EQB01-12Z
SIB01-02



RH1
RH1A
RH1C
RH1Z



U05E
U05G
V06C
V09C
V09G



SECTION 6
EXPLODED VIEWS

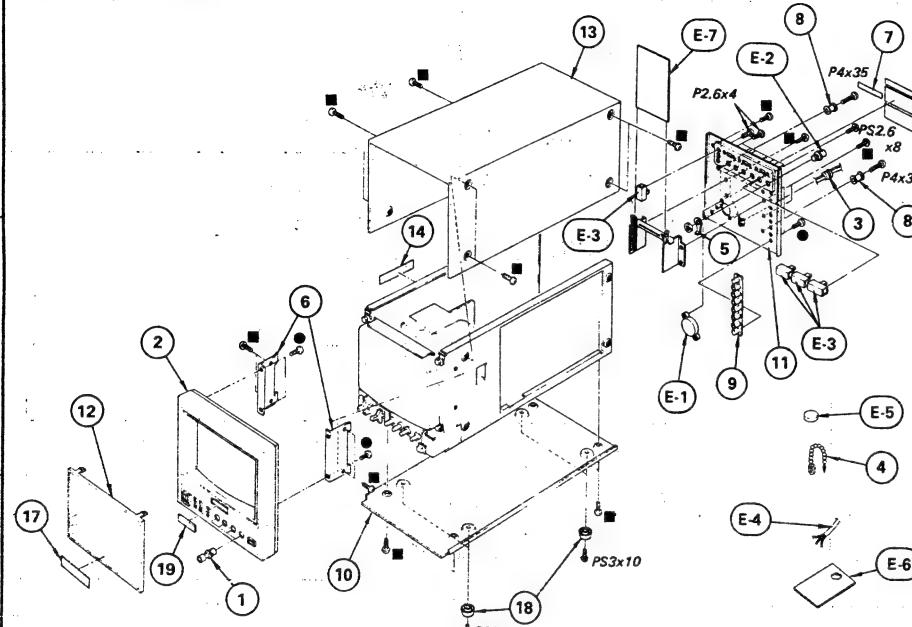
A

B

C

D

(1) MASK AND CABINET



No.	Part No	Description	Remark
1	X-4316-209-0	KNOB ASSY, CONTROL	
2	X-4340-203-0	BEZEL ASSY	
3	△:2-045-063-00	STOPPER, CORD	
4	4-308-870-00	CLIP, LEAD WIRE	
5	4-325-529-00	TERMINAL, CONNECTOR	
6	4-340-202-00	BRACKET, BEZEL	
7	4-310-380-00	LABEL, DEMKO	
8	4-340-206-00	WINDING, CORD	
9	△:4-340-214-00	INSULATOR, CONTROL	
10	△:4-340-219-00	COVER (LOWER)	

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

No.	Part No	Description	Remark
11	△:4-340-254-00	COVER, BACK	
12	4-340-221-00	FILTER	
13	△:4-340-226-00	COVER (UPPER)	
14	△:3-703-058-00	LABEL, PTB EXEMPTION	
15	3-703-057-00	LABEL, PTB EXEMPTION	
16	△:4-340-256-00	LABEL, MODEL NUMBER (LARGE)	
17	3-701-690-00	LABEL	
18	X-4861-312-0	FOOT ASSY, MF	
19	4-836-828-11	EMBLEM, SONY	

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "△" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

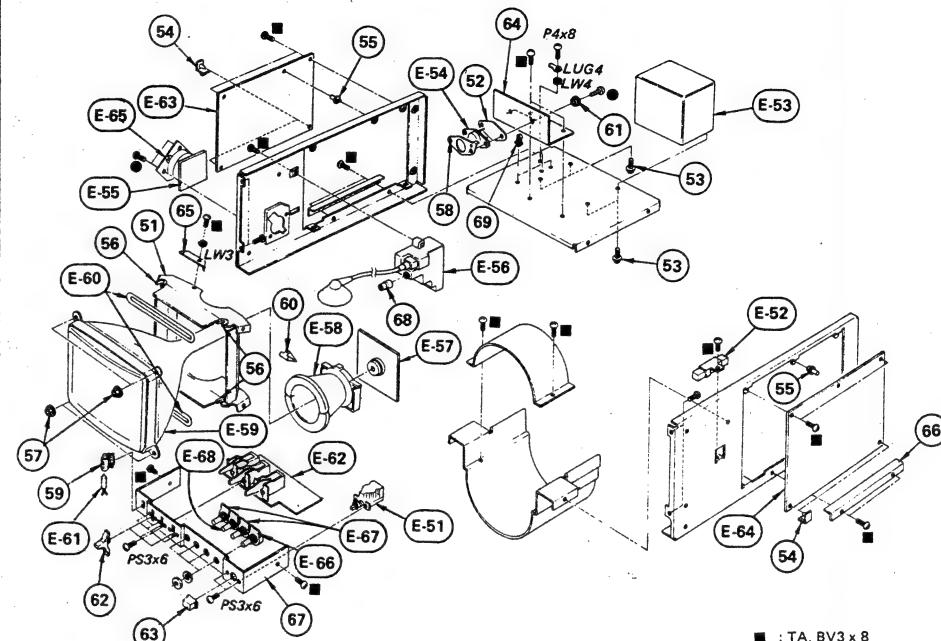
A

B

C

D

(2) CHASSIS



■ : TA, BV3 x 8
 ● : TA, BV3 x 12

No.	Part No	Description	Remark
51	△:X-4325-007-00	CRT SHIELD ASSY	
52	3-701-353-00	SPACER, MICA	
53	3-701-810-21	SCREW, TERMINAL	
54	3-701-832-00	HINGE, CIRCUIT BOARD	
55	△:4-303-473-00	SUPPORT, PC	
56	△:4-304-483-00	BUSHING, DEGAUSSING COIL	
57	△:4-304-749-00	NUT, FLANGE	
58	△:4-307-456-00	HOLDER, (TO-3)	
59	△:4-308-211-00	HOLDER, NEON LAMP	
60	4-309-369-00	SPACER, DEFLECTION YOKE	

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

No.	Part No	Description	Remark
61	4-313-734-00	BUSHING, TR, Y	
62	4-335-954-02	KNOB (2P), LEVER SWITCH	
63	4-335-962-00	PUSH BUTTON	
64	△:4-340-249-00	HEAT SINK, REG	
65	△:4-340-209-00	INSULATOR (A)	
66	△:4-340-210-00	INSULATOR (B)	
67	△:4-340-253-00	BRACKET, CONTROL	
68	4-309-360-00	CAP, RUBBER	
69	△:4-326-512-00	HOLDER, ROD	

NOTE:
 • As to the part numbered with E-, refer to the electrical parts list.
 • Items marked "△" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

B

SECTION 7
ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
		■:A-1135-107-A B BOARD, COMPLETE		E-64	C340	1-161-345-00 CERAMIC	75PF 5% 50V
		CONNECTOR			C341	1-161-345-00 CERAMIC	75PF 5% 50V
B4	■:1-508-765-00	3P PLUG (M)			C342	1-102-883-00 CERAMIC	27PF 5% 50V
B6	■:1-508-765-00	3P PLUG (M)			C343	1-102-883-00 CERAMIC	27PF 5% 50V
B7	■:1-508-768-00	6P PLUG			C344	1-161-379-00 CERAMIC	0.01MF 20% 25V
B8	■:1-508-766-00	4P PLUG (M)			C345	1-123-352-00 ELECT	1MF 20% 50V
B10	■:1-508-765-00	3P PLUG (M)			C346	1-161-323-00 CERAMIC	0.001MF 10% 50V
B11	■:1-508-765-00	3P PLUG (M)			C347	1-123-351-00 ELECT	0.47MF 20% 50V
B12	■:1-508-765-00	3P PLUG (M)			C349	1-123-352-00 ELECT	1MF 20% 50V
B13	■:1-508-765-00	3P PLUG (M)			C350	1-161-323-00 CERAMIC	0.001MF 10% 50V
B14	■:1-508-784-00	1P PLUG			C351	1-123-351-00 ELECT	0.47MF 20% 50V
B15	■:1-508-784-00	1P PLUG			C352	1-123-352-00 ELECT	1MF 20% 50V
B16	■:1-508-784-00	1P PLUG			C353	1-102-892-00 CERAMIC	22PF 5% 50V
B17	■:1-508-784-00	1P PLUG			C354	1-101-006-00 CERAMIC	0.047MF 50V
B18	■:1-508-784-00	1P PLUG			C359	1-101-006-00 CERAMIC	0.047MF 50V
B19	■:1-508-784-00	1P PLUG			C360	1-161-315-00 CERAMIC	220PF 10% 50V
					C361	1-161-315-00 CERAMIC	220PF 10% 50V
					C362	1-161-315-00 CERAMIC	220PF 10% 50V
					C363	1-123-352-00 ELECT	1MF 20% 50V
					C364	1-108-630-11 MYLAR	0.022MF 10% 100V
		CAPACITOR					
C302	1-102-980-00	CERAMIC	270PF 5% 50V		C365	1-161-616-11 MYLAR	0.0015MF 10% 100V
C303	1-161-379-00	CERAMIC	0.01MF 20% 25V		C366	1-123-352-00 ELECT	1MF 20% 50V
C304	1-123-332-00	ELECT	47MF 20% 25V		C367	1-161-318-00 CERAMIC	390PF 10% 50V
C305	1-101-006-00	CERAMIC	0.047MF 50V		C368	1-123-352-00 ELECT	1MF 20% 50V
C306	1-101-006-00	CERAMIC	0.047MF 50V		C369	1-161-271-00 CERAMIC	100PF 5% 50V
C307	1-161-379-00	CERAMIC	0.01MF 20% 25V		C370	1-101-006-00 CERAMIC	0.047MF 50V
C308	1-161-313-00	CERAMIC	150PF 10% 50V		C371	1-123-352-00 ELECT	1MF 20% 50V
C309	1-102-700-00	CERAMIC	82PF 5% 50V		C372	1-123-351-11 ELECT	0.47MF 20% 50V
C310	1-102-512-00	CERAMIC	16PF 5% 50V		C373	1-123-331-00 ELECT	33MF 20% 25V
C311	1-108-624-00	MYLAR	0.0068MF 10% 100V		C374	1-123-316-00 ELECT	10MF 20% 16V
C312	1-123-351-00	ELECT	0.47MF 20% 50V		C375	1-123-352-00 ELECT	1MF 20% 50V
C313	1-123-351-00	ELECT	0.47MF 20% 50V		C376	1-123-321-00 ELECT	220MF 20% 16V
C314	1-108-624-00	MYLAR	0.0068MF 10% 100V		C377	1-123-332-00 ELECT	47MF 20% 25V
C315	1-101-006-00	CERAMIC	0.047MF 50V		C378	1-161-319-00 CERAMIC	470PF 10% 50V
C316	1-123-351-00	ELECT	0.47MF 20% 50V		C380	1-161-379-00 CERAMIC	0.01MF 20% 25V
C317	1-161-379-00	CERAMIC	0.01MF 20% 25V		C381	1-123-316-00 ELECT	10MF 20% 16V
C318	1-102-670-00	CERAMIC	18PF 5% 50V		C382	1-123-352-00 ELECT	1MF 20% 50V
C319	1-102-668-00	CERAMIC	15PF 5% 50V		C384	1-123-328-00 ELECT	4.7MF 20% 25V
C320	1-161-379-00	CERAMIC	0.01MF 20% 25V		C385	1-123-352-11 ELECT	1MF 20% 50V
C321	1-161-379-00	CERAMIC	0.01MF 20% 25V		C390	1-161-025-00 CERAMIC	0.1MF 10% 25V
C327	1-123-351-00	ELECT	0.47MF 20% 50V		C391	1-161-025-00 CERAMIC	0.1MF 10% 25V
C328	1-161-379-00	CERAMIC	0.01MF 20% 25V		C392	1-102-676-00 CERAMIC	68PF 5% 50V
C329	1-161-379-00	CERAMIC	0.01MF 20% 25V		C393	1-123-320-00 ELECT	100MF 20% 16V
C330	1-123-316-00	ELECT	10MF 20% 16V		C394	1-161-025-00 CERAMIC	0.1MF 10% 25V
C331	1-123-352-00	ELECT	1MF 20% 50V		C395	1-161-379-00 CERAMIC	0.01MF 20% 25V
C332	1-123-352-00	ELECT	1MF 20% 50V		C451	1-123-352-00 ELECT	1MF 20% 50V
C333	1-102-888-00	CERAMIC	150PF 5% 50V		C452	1-161-319-00 CERAMIC	470PF 10% 50V
C334	1-123-316-00	ELECT	10MF 20% 16V		C453	1-101-880-00 CERAMIC	47PF 5% 50V
C335	1-161-025-51	CERAMIC	0.1MF 10% 25V		C454	1-101-361-00 CERAMIC	150PF 5% 50V
C336	1-161-325-51	CERAMIC	0.0015MF 30% 50V		C455	1-101-361-00 CERAMIC	150PF 5% 50V
C337	1-123-352-00	ELECT	1MF 20% 50V		C456	1-101-361-00 CERAMIC	150PF 5% 50V
C338	1-123-316-00	ELECT	10MF 20% 16V		C457	1-108-626-11 MYLAR	0.01MF 10% 100V
C339	1-108-642-11	MYLAR	0.22MF 10% 100V				

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : $\mu\mu$ F

RESISTORS

• All resistors are in ohms

COILS

• MMH : mH, UH : μ H

• F : nonflammable

B

B

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
C458	1-102-965-00	CERAMIC 39PF	5%	50V	Q321	8-729-663-47	TRANSISTOR 2SC1364	
C459	1-123-352-00	ELECT 1MF	20%	50V	Q322	8-729-663-47	TRANSISTOR 2SC1364	
		DIODE		Q323	8-729-663-47	TRANSISTOR 2SC1364		
D301	8-719-815-55	DIODE 1S1555		Q326	8-724-375-01	TRANSISTOR 2SC403C		
D302	8-719-815-55	DIODE 1S1555		Q327	8-729-663-47	TRANSISTOR 2SC1364		
D303	8-719-815-55	DIODE 1S1555						
D304	8-719-815-55	DIODE 1S1555						
D307	8-719-815-55	DIODE 1S1555						
		RESISTOR						
D308	8-719-151-77	DIODE RD5-1EC		R301	1-246-457-00	CARBON 220 5% 1/4W		
D309	8-719-815-55	DIODE 1S1555		R302	1-246-483-00	CARBON 2.7K 5% 1/4W		
D310	8-719-815-55	DIODE 1S1555		R303	1-246-459-00	CARBON 270 5% 1/4W		
D311	8-719-815-55	DIODE 1S1555		R304	1-246-455-00	CARBON 180 5% 1/4W		
D312	8-719-200-02	DIODE 10E2		R305	1-246-491-00	CARBON 5.6K 5% 1/4W		
D313	8-719-815-55	DIODE 1S1555		R306	1-246-475-00	CARBON 1.2K 5% 1/4W		
		DELAY LINE		R307	1-246-499-00	CARBON 12K 5% 1/4W		
DL301	1-415-122-31	DELAY LINE		R308	1-246-485-00	CARBON 3.3K 5% 1/4W		
DL302	1-415-100-00	DELAY LINE		R309	1-246-505-00	CARBON 22K 5% 1/4W		
		IC		R310	1-246-505-00	CARBON 22K 5% 1/4W		
IC301	8-751-080-00	IC CX108						
IC302	8-751-750-00	IC CX175		R311	1-246-485-00	CARBON 3.3K 5% 1/4W		
IC303	8-751-090-00	IC CX109		R312	1-246-495-00	CARBON 8.2K 5% 1/4W		
IC306	8-759-240-19	IC TC4019BP		R313	1-246-485-00	CARBON 3.3K 5% 1/4W		
IC307	8-759-240-53	IC TC4053BP		R314	1-246-483-00	CARBON 2.7K 5% 1/4W		
		COIL		R315	1-246-499-00	CARBON 12K 5% 1/4W		
L305	1-407-695-11	MICRO INDUCTOR 15UH						
L306	1-407-695-11	MICRO INDUCTOR 15UH		R321	1-246-521-00	CARBON 100K 5% 1/4W		
L307	1-407-206-XK	MICRO INDUCTOR 10MMH		R324	1-246-465-00	CARBON 470 5% 1/4W		
L308	1-407-210-XK	MICRO INDUCTOR 22MMH		R325	1-246-457-00	CARBON 220 5% 1/4W		
L311	1-407-693-11	MICRO INDUCTOR 10UH		R326	1-246-469-00	CARBON 680 5% 1/4W		
L320				R333	1-246-501-00	CARBON 15K 5% 1/4W		
L451	1-407-707-11	MICRO INDUCTOR 150UH						
		TRANSISTOR		R334	1-246-485-00	CARBON 3.3K 5% 1/4W		
Q301	8-724-375-01	TRANSISTOR 2SC403C		R335	1-246-497-00	CARBON 10K 5% 1/4W		
Q302	8-724-375-01	TRANSISTOR 2SC403C		R336	1-246-497-00	CARBON 10K 5% 1/4W		
Q303	8-724-375-01	TRANSISTOR 2SC403C		R337	1-246-497-00	CARBON 10K 5% 1/4W		
Q304	8-729-663-47	TRANSISTOR 2SC1364		R338	1-246-497-00	CARBON 10K 5% 1/4W		
Q307	8-729-663-47	TRANSISTOR 2SC1364						
				R340	1-246-455-00	CARBON 180 5% 1/4W		
				R341	1-246-463-00	CARBON 390 5% 1/4W		
				R342	1-246-463-00	CARBON 390 5% 1/4W		
				R343	1-246-475-00	CARBON 1.2K 5% 1/4W		
				R344	1-246-467-00	CARBON 560 5% 1/4W		
				R345	1-246-509-00	CARBON 33K 5% 1/4W		
				R346	1-246-505-00	CARBON 22K 5% 1/4W		
				R347	1-246-477-00	CARBON 1.5K 5% 1/4W		
				R348	1-246-517-00	CARBON 68K 5% 1/4W		
				R349	1-246-483-00	CARBON 2.7K 5% 1/4W		
				R350	1-246-489-00	CARBON 4.7K 5% 1/4W		
				R351	1-246-485-00	CARBON 3.3K 5% 1/4W		
				R352	1-246-467-00	CARBON 560 5% 1/4W		
				R353	1-246-477-00	CARBON 1.5K 5% 1/4W		

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

=> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

CAPACITORS

MF : μ F, PF : μ F

RESISTORS

All resistors are in ohms

COILS

MMH : mH, UH : μ H

F : nonflammable

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F : nonflammable

B P Q

Q C

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark								
RV454	1-224-964-00	RES, ADJ, CARBON 330		C216	1-108-634-11	MYLAR 0.047MF	10% 100V								
RV455	1-224-938-00	RES, ADJ, METAL FILM 2K		C217	1-123-321-00	ELECT 220MF	20% 16V								
		TRANSFORMER		C218	1-123-319-00	ELECT 47MF	20% 16V								
				C219	1-108-634-11	MYLAR 0.047MF	10% 100V								
				C220	1-123-319-00	ELECT 47MF	20% 16V								
T301	1-425-927-00	TRANSFORMER, BANDPASS (BPT)		C221	1-102-947-00	CERAMIC 10PF	5% 50V								
T302	1-404-081-00	TRANSFORMER, DELAY ADJUST		C222	1-102-947-00	CERAMIC 10PF	5% 50V								
T303	1-407-573-00	COIL, OSCILLATOR, APC		C223	1-102-947-00	CERAMIC 10PF	5% 50V								
T304	1-425-928-00	TRANSFORMER, DELAY ADJUSTING		C224	1-102-947-00	CERAMIC 10PF	5% 50V								
T305	1-404-146-00	TRANSFORMER		C225	1-108-634-11	MYLAR 0.047MF	10% 100V								
T306	1-407-573-00	COIL, VARIABLE 47MH		C226	1-123-333-00	ELECT 100MF	20% 25V								
T307	1-407-573-00	COIL, VARIABLE 47MH		C227	1-123-333-00	ELECT 100MF	20% 25V								
T309	1-425-784-00	TRANSFORMER, TAKE OFF(T.O.T.)		C228	1-123-332-00	ELECT 47MF	20% 25V								
		CRYSTAL		C229	1-123-333-00	ELECT 100MF	20% 25V								
X301	1-527-345-00	CRYSTAL, OSC		C230	1-123-332-00	ELECT 47MF	20% 25V								

▲:1-601-459-00 P BOARD				C232	1-108-634-11	MYLAR 0.047MF	10% 100V								
E-55				C233	1-123-352-00	ELECT 1MF	20% 50V								
				C234	1-108-634-11	MYLAR 0.047MF	10% 100V								
				C235	1-123-352-00	ELECT 1MF	20% 50V								

CAPACITOR															
DIODE															
C901	1-108-692-11	MYLAR 0.01MF	10% 200V	D201	8-719-422-21	DIODE 1T22AM									
C907	1-123-362-00	ELECT 330MF	20% 50V	D202	8-719-815-55	DIODE 1S1555									
				D203	>8-719-930-12	DIODE EQ801-12Z									
COIL															
L901	1-407-704-11	MICRO INDUCTOR 82UH		IC											
RESISTOR								IC201	8-751-300-00	IC CX-130					
R905 1-246-485-00 CARBON 3.3K 5% 1/4W								IC202	8-751-300-00	IC CX-130					
R908 1-246-441-00 CARBON 47 5% 1/4W								IC203	8-751-300-00	IC CX-130					
CONNECTOR								CONNECTOR							
TRANSFORMER								Q1	▲:1-508-766-00	4P PLUG (M)					
T902 ▲:1-439-212-00 TRANSFORMER, FLYBACK								Q2	▲:1-508-765-00	3P PLUG (M)					
E-65								Q3	▲:1-508-765-00	3P PLUG (M)					
*****								Q4	▲:1-508-768-00	6P PLUG					
▲:A-1275-032-A Q BOARD, COMPLETE								Q5	▲:1-508-765-00	3P PLUG (M)					
E-7								Q6	▲:1-508-765-00	3P PLUG (M)					
CAPACITOR								Q7	▲:1-508-784-00	1P PLUG					
TRANSISTOR								Q8	▲:1-508-784-00	1P PLUG					
C201	1-123-329-00	ELECT 10MF	20% 25V	TRANSISTOR											
C202	1-123-329-00	ELECT 10MF	20% 25V	Q201	8-729-663-47	TRANSISTOR 2SC1364									
C203	1-123-321-00	ELECT 220MF	20% 16V	Q202	8-729-663-47	TRANSISTOR 2SC1364									
C204	1-123-319-00	ELECT 47MF	20% 16V	Q203	>8-729-612-77	TRANSISTOR 2SA1027R									
C205	1-108-634-11	MYLAR 0.047MF	10% 100V	Q204	8-729-663-47	TRANSISTOR 2SC1364									
C206	1-123-329-00	ELECT 10MF	20% 25V	Q205	8-729-663-47	TRANSISTOR 2SC1364									
C207	1-123-329-00	ELECT 10MF	20% 25V	TRANSISTOR											
C208	1-123-319-00	ELECT 47MF	20% 16V	Q206	8-729-663-47	TRANSISTOR 2SC1364									
C209	1-123-319-00	ELECT 47MF	20% 16V	Q207	8-729-663-47	TRANSISTOR 2SC1364									
C210	1-123-319-00	ELECT 47MF	20% 16V	Q208	8-729-663-47	TRANSISTOR 2SC1364									
C211	1-123-329-51	ELECT 10MF	20% 25V	Q209	8-729-663-47	TRANSISTOR 2SC1364									
C212	1-123-320-00	ELECT 100MF	20% 16V	Q210	>8-729-612-77	TRANSISTOR 2SA1027R									
C213	1-123-328-00	ELECT 4.7MF	20% 25V	TRANSISTOR											
C214	1-123-320-00	ELECT 100MF	20% 16V	Q211	>8-729-612-77	TRANSISTOR 2SA1027R									
C215	1-123-320-00	ELECT 100MF	20% 16V	Q212	8-729-663-47	TRANSISTOR 2SC1364									

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS MF : μ F, PF : $\mu\mu$ F

RESISTORS All resistors are in ohms F : nonflammable

COILS MMH : mH, UH : μ H

• MF : μ F, PF : $\mu\mu$ F

• All resistors are in ohms

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• MF : μ F, PF : $\mu\mu$ F

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
Q213	>8-729-612-77	TRANSISTOR 2SA1027R		R247	1-246-449-00	CARBON	100 5% 1/4W	R252	1-246-449-00	CARBON	10K 5% 1/4W				
Q214	8-729-663-47	TRANSISTOR 2SC1364		R248	1-246-469-00	CARBON	680 5% 1/4W	R253	1-246-449-00	CARBON	100 5% 1/4W				
Q215	8-729-663-47	TRANSISTOR 2SC1364		R249	1-246-479-00	CARBON	1.8K 5% 1/4W	R254	1-246-479-00	CARBON	6.8K 5% 1/4W				
Q216	8-729-663-47	TRANSISTOR 2SC1364		R250	1-246-465-00	CARBON	470 5% 1/4W	R255	1-246-482-00	CARBON	2.4K 5% 1/4W				
Q217	8-729-663-47	TRANSISTOR 2SC1364		R251	1-246-519-00	CARBON	82K 5% 1/4W	R256	1-246-482-00	CARBON	3.3K 5% 1/4W				
RESISTOR															
R201	1-246-497-00	CARBON	10K 5% 1/4W	R206	1-246-449-00	CARBON	100 5% 1/4W	R211	1-246-510-00	CARBON	36K 5% 1/4W				
R202	1-246-516-00	CARBON	62K 5% 1/4W	R207	1-211-533-00	CARBON	300 5% 1/4W	R212	1-246-489-00	CARBON	4.7K 5% 1/4W				
R203	1-246-510-00	CARBON	36K 5% 1/4W	R208	1-246-473-00	CARBON	1K 5% 1/4W	R213	1-246-483-00	CARBON	2.7K 5% 1/4W				
R204	1-246-497-00	CARBON	10K 5% 1/4W	R209	1-246-497-00	CARBON	910 5% 1/4W	R214	1-246-499-00	CARBON	5.1K 5% 1/4W				
R205	1-246-483-00	CARBON	62K 5% 1/4W	R210	1-246-496-00	CARBON	470 5% 1/4W	R215	1-246-499-00	CARBON	100 5% 1/4W				
TRANSFORMER															
T201	1-409-193-00	COIL 3.5MHZ TRAP		T202	1-409-193-00	COIL 3.5MHZ TRAP		T201	1-409-193-00	COIL 3.5MHZ TRAP					

▲:A-1330-271-A C BOARD, COMPLETE															
E-57															
B11 ▲:1-509-839-82 CONNECTOR ASSY, 3P															
C1 ▲:1-508-765-00 3P PLUG (M)															
CAPACITOR															
C721	1-108-638-00	MYLAR 0.1MF	10% 500V	C722	1-102-030-00	CERAMIC 330PF	10% 500V	C723	1-102-155-00	CERAMIC 330PF	20% 2KV				
COIL															
L701	1-407-709-00	MICRO INDUCTOR 220UH		NEON LAMP											
NL721 1-519-108-XX LAMP, NEON ASSY															
TRANSISTOR															
R221	1-246-523-00	CARBON	120K 5% 1/4W	R222	1-246-537-00	CARBON	470K 5% 1/4W	R223	1-211-533-00	CARBON	300 5% 1/4W				
R224	1-246-497-00	CARBON	10K 5% 1/4W	R225	1-246-497-00	CARBON	3.9K 5% 1/4W	R226	1-246-485-00	CARBON	820 5% 1/4W				
R227	1-246-497-00	CARBON	10K 5% 1/4W	R228	1-246-487-00	CARBON	2.7K 5% 1/4W	R229	1-246-483-00	CARBON	10K 5% 1/4W				
R229	1-246-487-00	CARBON	3.9K 5% 1/4W	R230	1-246-479-00	CARBON	100 5% 1/4W	R231	1-246-473-00	CARBON	1K 5% 1/4W				
R232	1-246-449-00	CARBON	100 5% 1/4W	R233	1-211-533-00	CARBON	300 5% 1/4W	R234	1-246-473-00	CARBON	1K 5% 1/4W				
R235	1-246-449-00	CARBON	100 5% 1/4W	R236	1-246-471-00	CARBON	820 5% 1/4W	R237	1-246-449-00	CARBON	100 5% 1/4W				
R237	1-246-449-00	CARBON	100 5% 1												

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
R715	1-202-581-00	COMPISITION	2.2K 10% 1/2W	C526	1-102-106-00	CERAMIC	100PF 10% 50V	D509	8-719-815-55	DIODE 1S1555		R509	1-246-509-00	CARBON	33K 5% 1/4W				
R720	1-202-629-35	COMPISITION	220K 10% 1/2W	C527	1-102-030-00	CERAMIC	330PF 10% 500V	D510	8-719-815-55	DIODE 1S1555		R510	1-246-477-00	CARBON	1.5K 5% 1/4W				
R721	1-246-537-00	CARBON	470K 5% 1/4W	C528	Δ-1-130-118-00	FILM	0.051MF 5% 400V	D511	=>8-719-300-76	DIODE RH1A		R511	1-246-459-00	CARBON	270 1/4W				
R723	1-202-647-35	COMPISITION	1.2M 10% 1/2W	C529	Δ-1-129-708-00	FILM	0.0033MF 10% 630V	D512	8-719-300-70	DIODE RH1C		R511	1-246-461-00	CARBON	330 1/4W				
R724	1-202-647-35	COMPISITION	1.2M 10% 1/2W	C530	1-123-359-00	ELECT	47MF 20% 50V	D514	8-719-930-19	DIODE EQB01-19Z		R511	1-246-465-00	CARBON	470 1/4W				
R725	1-202-621-00	COMPISITION	100K 10% 1/2W	C531	1-123-331-00	ELECT	33MF 20% 25V	D515	8-719-815-55	DIODE 1S1555		R511	1-246-468-00	CARBON	620 1/4W				
R726	1-213-046-51	FUSIBLE	2.7 5% 1W F	C535	1-108-692-61	MYLAR	0.01MF 10% 200V	D516	8-719-815-55	DIODE 1S1555		R511	1-246-471-00	CARBON	820 1/4W				
VARIABLE RESISTOR																			
RV721	1-226-053-00	RES, ADJ, METAL GLAZE	3.3M	C539	1-108-640-11	MYLAR	0.15MF 10% 100V	D520	=>8-719-200-02	DIODE 10E2		R511	1-246-483-00	CARBON	2.7K 1/4W				
SPARK GAP																			
S6721	1-519-063-XX	DISCHARGING GAP	1.5K	C541	1-131-158-52	TANTALUM	10MF 20% 16V	D522	=>8-719-900-95	VOVG		R511	1-246-487-00	CARBON	3.9K 1/4W				
S6722	1-519-063-XX	DISCHARGING GAP	1.5K	C542	1-123-322-00	ELECT	330MF 20% 16V	D523	8-719-815-55	DIODE 1S1555		R512	1-246-490-00	CARBON	5.1K 5% 1/4W				
S6724	1-519-063-XX	DISCHARGING GAP	1.5K	C543	1-108-628-11	MYLAR	0.015MF 10% 100V	D524	8-719-815-55	DIODE 1S1555		R513	1-246-509-00	CARBON	33K 5% 1/4W				

A-1345-294-A D BOARD, COMPLETE		E-63		C544	1-123-318-00	ELECT	33MF 20% 16V	FUSE				R514	1-246-471-00	CARBON	820 5% 1/4W				
A-1-508-801-00 U TYPE BASE POST 4P		C545		C545	1-123-331-00	ELECT	33MF 20% 25V	FUSE				R515	1-246-489-00	CARBON	4.7K 5% 1/4W				
1-517-072-00 LAMP HOLDER		C551		C551	1-123-334-00	ELECT	220MF 20% 25V	FUSE				R516	1-246-490-00	CARBON	12K 5% 1/4W				
A-1-536-354-00 POST PIN		C552		C552	1-123-316-00	ELECT	10MF 20% 16V	FUSE				R517	1-246-483-00	CARBON	2.7K 5% 1/4W				
A-3701-832-00 HINGE, CIRCUIT BOARD		C553		C553	1-108-632-11	MYLAR	0.033MF 10% 100V	FUSE				R518	1-246-497-00	CARBON	10K 5% 1/4W				
A-4-020-729-00 HEAT SINK, H OUT		C554		C554	1-123-267-00	ELECT	2.2MF 20% 160V	FUSE				R519	1-246-487-00	CARBON	3.9K 5% 1/4W				
CAPACITOR																			
C501	1-102-189-00	CERAMIC	0.0047MF	C559	1-108-628-11	MYLAR	0.015MF 10% 100V	COIL				R521	1-246-477-00	CARBON	1.5K 5% 1/4W				
C502	1-102-189-00	CERAMIC	0.0047MF	C560	1-108-632-11	MYLAR	0.033MF 10% 100V	COIL				R522	1-246-425-00	CARBON	10 5% 1/4W				
C503	1-102-189-00	CERAMIC	0.0047MF	C561	1-123-364-00	ELECT	1000MF 20% 50V	COIL				R523	1-246-508-00	CARBON	30K 5% 1/4W				
C504	1-102-189-00	CERAMIC	0.0047MF	C562	1-108-630-11	MYLAR	0.022MF 10% 100V	COIL				R524	1-246-435-00	CARBON	27 5% 1/4W				
C505	1-123-364-00	ELECT	1000MF 20% 50V	C563	1-108-630-11	MYLAR	0.015MF 10% 100V	COIL				R525	1-246-467-00	CARBON	560 5% 1/4W				
C506	1-123-357-00	ELECT	22MF 20% 50V	CONNECTOR				TRANSISTOR				R526	1-246-469-00	CARBON	680 5% 1/4W				
C507	1-123-361-00	ELECT	220MF 20% 50V	CONNECTOR				TRANSISTOR				R527	1-244-885-00	CARBON	3.3K 5% 1/2W				
C508	1-102-115-00	CERAMIC	560PF 10% 50V	CONNECTOR				TRANSISTOR				R528	1-206-648-00	METAL	220 5% 24 F				
C509	1-123-361-00	ELECT	220MF 20% 50V	D1	=>1-508-765-00	3P PLUG (M)		TRANSISTOR				R529	1-212-368-00	METAL	4.7 5% 14 F				
C510	1-102-115-00	CERAMIC	560PF 10% 50V	D2	=>1-508-766-00	4P PLUG (M)		TRANSISTOR				R530	=>1-508-804-00	COMPISITION	100MF 10% 10W F				
C511	1-123-352-00	ELECT	1MF 20% 50V	D3	=>1-508-765-00	3P PLUG (M)		TRANSISTOR				R531	1-246-981-00	CARBON	4.7 5% 1/8W F				
C512	1-108-638-00	MYLAR	0.1MF 10% 100V	D4	=>1-508-765-00	3P PLUG (M)		TRANSISTOR				R532	1-246-979-00	CARBON	1.2 5% 1/8W F				
C513	1-108-630-11	MYLAR	0.022MF 10% 100V	D5	=>1-508-786-00	2P PLUG (M)		TRANSISTOR				R533	1-205-532-00	WIREWOUND	3.3 10% 10M F				
C514	1-108-622-11	MYLAR	0.0047MF 10% 100V	D6	=>1-508-786-00	2P PLUG (M)		TRANSISTOR				R534	1-246-447-00	CARBON	82 5% 1/4W				
C515	1-108-632-11	MYLAR	0.033MF 10% 100V	D7	=>1-508-784-00	1P PLUG		TRANSISTOR				R535	1-246-453-00	CARBON	150 5% 1/4W				
C516	1-123-351-00	ELECT	0.47MF 20% 50V	DIODE				RESISTOR				R536	1-246-455-00	CARBON	180 5% 1/4W				
C517	1-108-614-11	MYLAR	0.001MF 10% 100V	DIODE				RESISTOR				R537	1-246-457-00	CARBON	220 5% 1/4W				
C518	1-102-002-51	CERAMIC	680P 10% 500V	D501	=>8-719-911-55	DIODE U056		RESISTOR				R538	1-246-459-00	CARBON	270 5% 1/4W				
C519	1-123-354-00	ELECT	3.3MF 20% 50V	D502	=>8-719-911-55	DIODE U056		RESISTOR				R539	1-246-461-00	CARBON	330 5% 1/4W				
C520	1-130-117-00	FILM	0.033MF 5% 100V	D503	=>8-719-911-55	DIODE U056		RESISTOR				R540	1-246-463-00	CARBON	390 5% 1/4W				
C521	1-108-638-00	MYLAR	0.1MF 10% 100V	D504	=>8-719-911-55	DIODE U056		RESISTOR				R541	1-246-496-00	CARBON	9.1K 5% 1/4W				
C522	1-123-330-00	ELECT	22MF 20% 25V	D505	=>8-719-931-06	DIODE EQB01-06		CAPACITORS				R542	1-246-461-00	CARBON	330 5% 1/4W				
C523	1-123-253-00	ELECT	22MF 20% 160V	D506	8-719-815-55	DIODE 1S1555		RESISTORS				R543	1-246-467-00	CARBON	47K 5% 1/4W				
C524	1-123-352-00	ELECT	1MF 20% 50V	D507	=>8-719-931-07	DIODE EQB01-07		COILS				R544	1-246-494-25	CARBON	7.5K 5% 1/4W				
C525	1-102-106-00	CERAMIC	100PF 10% 50V	D508	=>8-719-300-76	DIODE RH1A		COILS				R545	1-246-421-00	CARBON	6.8 5% 1/4W				
CAPACITORS																			
RESISTORS																			
COILS																			
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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R554	1-246-505-00	CARBON	22K 5% 1/4W	R406	1-246-501-00	CARBON	15K 5% 1/4W
R555	1-246-471-00	CARBON	820 5% 1/4W	R407	1-246-517-00	CARBON	68K 5% 1/4W
R556	1-246-451-00	CARBON	120 5% 1/4W	R409	1-246-493-00	CARBON	6.8K 5% 1/4W
R557	1-246-872-11	CARBON	3.3 5% 1/4W F	R410	1-246-482-00	CARBON	2.4K 5% 1/4W
R558	1-246-872-11	CARBON	3.3 5% 1/4W F			SWITCH	
R559	1-246-465-00	CARBON	470 5% 1/4W	S907	1-552-897-00	SWITCH, LEVER	
R560	1-246-460-00	WIREWOUND	0.56 10% 1/2W F	S908	1-552-897-00	SWITCH, LEVER	
R561	1-246-485-25	CARBON	3.3K 5% 1/4W	S909	1-552-897-00	SWITCH, LEVER	
R564	1-246-467-00	CARBON	560 5% 1/4W			*****	
R565	1-246-469-00	CARBON	680 5% 1/4W			MISCELLANEOUS	
R566	1-246-480-00	CARBON	2K 5% 1/4W			1-226-052-00 RES, VAR, HIGH-VOLTAGE	
R567	1-246-511-00	CARBON	39K 5% 1/4W			1-452-032-00 MAGNET DISK, 10mm Ø	E-5
R568	1-246-485-00	CARBON	3.3K 5% 1/4W			1-452-126-11 MAGNET	E-6
R569	1-246-469-00	CARBON	680 5% 1/4W			1-453-050-31 HIGH-VOLTAGE BLOCK	E-56
R570	1-246-497-00	CARBON	10K 5% 1/4W			1-509-805-00 3P CONNECTOR ASSY	
R571	1-246-442-00	CARBON	51 5% 1/4W			1-509-808-00 CONNECTOR, 4P	
R573	1-246-441-00	CARBON	47 5% 1/4W			1-509-825-00 6P CONNECTOR ASSY	
R574	1-206-481-00	METAL	56 5% 2W F			1-509-831-00 1P CONNECTOR ASSY	
R577	1-244-907-00	CARBON	27K 5% 1/2W			1-509-833-00 CONNECTOR ASSY, MINIATURE, 1P	
R578	1-206-479-00	METAL	47 5% 2W F			1-509-834-32 CONNECTOR, 3P	
						1-509-888-00 CONNECTOR ASSY, 2P	
						1-552-820-XX POWER CORD	
						1-551-450-00 CONNECTOR ASSY, 3P	
						1-551-604-00 CONNECTOR ASSY, MINIATURE 3P	
						1-551-605-00 CONNECTOR ASSY, MINIATURE 3P	
						1-551-608-00 CONNECTOR ASSY, MINIATURE 3P	
						1-551-616-00 CONNECTOR ASSY, MINIATURE 4P	
						1-551-960-00 CONNECTOR ASSY, 1P	
						1-555-026-00 CONNECTOR ASSY, MINIATURE 3P	
						1-561-021-00 CONNECTOR ASSY, MINIATURE 3P	
						1-551-617-00 CONNECTOR	E-2
						CNJ901A-1-561-167-00 CONNECTOR	E-2
						CNJ902A-1-561-167-00 CONNECTOR	E-2
						CNJ903A-1-561-167-00 CONNECTOR	E-2
						CNJ904A-1-561-167-00 CONNECTOR	E-2
						CNJ905A-1-561-167-00 CONNECTOR	E-2
						CNJ906A-1-561-167-00 CONNECTOR	E-2
						F504 A-1-532-235-11 FUSE 315mA	
						F505 A-1-532-078-11 FUSE 1A	
						L901 A-1-451-145-00 DEFLECTION YOKE	E-58
						L903 A-1-425-856-21 COIL, ERASE	E-60
						L904 A-1-425-856-21 COIL, ERASE	E-60
						ML901A-1-519-125-81 LAMP, NEON ASSY	E-61
						Q901 8-729-311-42 TRANSISTOR 2SC1114-0	E-54
						R901 1-244-646-11 RES, CARBON 75	
						R902 1-244-646-11 RES, CARBON 75	
						R903 1-244-646-11 RES, CARBON 75	
						R906 1-202-837-00 RES, SOLID 82K 1/2W	
						R907 1-205-603-00 RES, WIREWOUND 27 20W F	E-52
						R901 1-222-627-11 RES, VAR, CARBON 5K	E-66
						R902 1-224-619-00 RES, VAR, CARBON 5K	E-68

Ref.No	Part No	Description	Remark
RV903	1-222-388-11	RES, VAR, CARBON 20K	E-67
RV904	1-222-388-11	RES, VAR, CARBON 20K	E-67
SG901	1-519-030-00	DISCHARGE ELEMENT	
S901	Δ.1-553-330-00	SWITCH, PUSH (POWER)	E-51
S902	Δ.1-516-174-00	SWITCH	E-1
S903	1-514-459-11	SLIDE SWITCH	E-3
S904	1-514-459-11	SLIDE SWITCH	E-3
S905	1-514-459-11	SLIDE SWITCH	E-3
S906	1-514-459-11	SLIDE SWITCH	E-3
T901	Δ.1-446-841-00	TRANSFORMER, POWER	E-53
V901	Δ.8-737-705-05	PICTURE TUBE 220FB22	E-59

ACCESORIES AND PACKING MATERIALS

Part No	Description	Remark
3-701-360-00	LABEL, TACK	
3-701-631-00	BAG, POLYETHYLENE	
4-340-203-00	PLATE, NUMBER	
4-340-231-00	BAG, PROTECTION	
4-340-247-00	CUSHION (FRONT)	
4-340-248-00	CUSHION (REAR)	
4-340-257-00	INDIVIDUAL CARTON	
4-495-991-11	MANUAL, INSTRUCTION	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• \Rightarrow : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked Δ are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

• MF : μ F, PF : μ PF

RESISTORS

• All resistors are in ohms

COILS

• MMH : mH, UH : μ H

F : nonflammable

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : μ PF

RESISTORS

• All resistors are in ohms

COILS

• MMH : mH, UH : μ H

F : nonflammable

STANDARD PARTS LIST

**** CAPACITOR ELECT ****

uF	6.3V	10V	16V	25V	35V	50V	100V	160V	250V	350V
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
0.47							1-121-726			
1.01							391	1-121-249	1-123-252	1-121-003
2.21							450	250	026	1-121-028
3.31							393	1-121-995	004	006
4.71							396	1-121-255	1-121-759	007
							395	1-121-246	1-121-254	008
10				1-121-651			738	1-121-126	999	1-121-253
22				475			152	999		022
33				403			405	997		919
47			1-121-352	409			652			
100			414	413			410	413	1-123-251	
220	1-121-419		420	421			422	423		
330	751		805	321			654	655	656	
470	424		424	426			733	261	810	
1000			736	245			657	388	1-123-061	
2200			658	660			660	1-123-067	984	
3300			661	1-121-075	1-123-071					

**** CAPACITOR ****

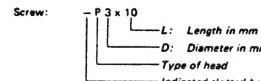
NYLAR		
uF	50V	100V
	102	102
0.001	1-108-227	1-108-365
0.0012	351	365
0.0015	228	367
0.0018	352	368
0.0022	230	369
0.0027	353	370
0.0033	232	371
0.0039	354	372
0.0047	234	373
0.0056	355	374
0.0063	237	375
0.0082	355	376
0.01	239	377
0.012	357	378
0.015	240	379
0.018	358	390
0.022	242	381
0.027	359	382
0.033	244	393
0.039	360	384
0.047	246	385
0.056	361	396
0.068	249	387
0.082	362	388
0.1	251	389
0.12	363	390
0.15	252	391
0.18	364	392
0.22	254	393
0.27	854	
0.33	855	
0.39	856	
0.47	857	

CERAMIC		
pF	Part No.	
0.5	1-101-837	1-102-973
0.75	586	110
1.0	1-102-934	120
1.5	1-101-576	130
2.0	1-102-935	150
S 3	936	S 160
L 4	937	180
5	942	200
6	943	220
7	944	240
8	945	270
9	946	300
10	947	330
11	948	360
12	949	390
13	950	430
15	951	470
16	932	510
18	953	
20	958	560
22	959	630
24	960	820
27	961	1000
30	962	1200
33	963	1500
36	964	B 1800
39	965	2200
43	966	2700
47	1-101-880	3300
51	882	3900
56	884	4700
62	886	5600
68	888	6300
75	890	8200
82	1-102-971	10000
91	972	129

1/4 WATT CARBON RESISTOR

Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1.01-246-401-001	101-246-425-001	1001-246-449-001	1.2K	1-246-473-001	10K	1-246-497-001	100K
1.11	402-001	111	426-001	1101	450-001	1.1K	498-001
1.21	403-001	121	427-001	1201	451-001	1.2K	499-001
1.31	404-001	131	428-001	1301	452-001	1.3K	500-001
1.51	405-001	151	429-001	1501	453-001	1.5K	501-001
1.61-246-406-001	161-246-430-001	1601-246-454-001	1.6K	1-246-578-001	16K	1-246-502-001	160K
1.81	407-001	181	431-001	1801	455-001	1.8K	579-001
2.01	408-001	201	432-001	2001	456-001	2.0K	580-001
2.21	409-001	221	433-001	2201	457-001	2.2K	581-001
2.41	410-001	241	434-001	2401	458-001	2.4K	582-001
2.71-246-411-001	271-246-435-001	2701-246-459-001	2.7K	1-246-583-001	27K	1-246-507-001	270K
3.01	412-001	301	436-001	3001	460-001	3.0K	584-001
3.31	413-001	331	437-001	3301	461-001	3.3K	585-001
3.61	414-001	361	438-001	3601	462-001	3.6K	586-001
3.91	415-001	391	439-001	3901	463-001	3.9K	587-001
4.31-246-416-001	431-246-440-001	4301-246-464-001	4.3K	1-246-488-001	43K	1-246-512-001	430K
4.71	417-001	471	441-001	4701	465-001	4.7K	489-001
5.11	418-001	511	442-001	5101	466-001	5.1K	490-001
5.61	419-001	561	443-001	5601	467-001	5.6K	491-001
6.21	420-001	621	444-001	6201	468-001	6.2K	492-001
6.81-246-421-001	681-246-445-001	6801-246-469-001	6.8K	1-246-493-001	68K	1-246-517-001	680K
7.51	422-001	751	446-001	7501	470-001	7.5K	494-001
8.21	423-001	821	447-001	8201	471-001	8.2K	495-001
9.11	424-001	911	448-001	9101	472-001	9.1K	496-001

HARDWARE NOMENCLATURE



Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P	Ⓐ	pan-head screw	binding-head (B) screw for replacement
PWH	Ⓑ	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	Ⓒ	pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW	Ⓓ	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	Ⓔ	round-head screw	binding-head (B) screw for replacement
K	Ⓕ	flat-countersunk-head screw	
RK	Ⓖ	oval-countersunk-head screw	
B	Ⓗ	binding-head screw	
T	Ⓘ	truss-head screw	binding-head (B) screw for replacement
F	Ⓛ	flat-fillister-head screw	
RF	Ⓜ	fillister-head screw	
BV	Ⓝ	braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA	Ⓐ	self-tapping screw	ex: TA, P 3 x 10
PTP	Ⓑ	pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH	Ⓒ	pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH	Ⓓ	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC	Ⓔ	set screw	
SC	Ⓛ	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N	Ⓕ	nut	
WASHERS			
W	Ⓖ	flat washer	
SW	Ⓗ	spring washer	
LW	Ⓛ	internal-tooth lock washer	ex: LW3, internal
LW	Ⓜ	external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E	Ⓝ	retaining ring	
G	Ⓛ	grip-type retaining ring	

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